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ADOLESCENT HEALTH IN NORTH CAROLINA: THE LAST 15 YEARS

by

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ABSTRACT

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In response to growing concern about adolescent health issues, this report examines a wide range of health indicators for North Carolinians aged 10-19 years. Results show some positive trends: the percentages of pregnant adolescents entering early prenatal care and using ancillary prenatal services have increased; fetal and infant mortality among adolescent mothers has declined; and adolescent mortality from motor vehicle and other unintentional injuries has dropped. For most other indicators examined in this report, however, findings provoke concern about a wide range of health and social problems. These findings include rising levels of adolescent pregnancy, unmarried childbearing, sexually transmitted disease, homicide, suicide, and crime as well as high prevalences of behaviors and risk factors that often underlie those events. Accordingly, many county health departments now rank adolescent health issues among their top priorities. This study also reveals deep race and sex disparities in health outcomes and behaviors. These disparities must be a prime consideration in formulating prevention strategies.

Both a national initiative, *Healthy People 2000*, and a corresponding state initiative, *Healthy Carolinians 2000*, address some of the problems of adolescence through the formulation of health objectives for adolescents and young adults. The present report provides data for a number of those objectives and points up certain data deficiencies that need to be addressed (see Conclusion). Meanwhile, indicators from the biennial Youth Risk Behavior Survey (Department of Public Instruction) will be used to track progress toward the risk reduction objectives for the Year 2000.

The North Carolina General Assembly, through the Division of Maternal and Child Health, is now funding a limited number of school-based health centers and local adolescent pregnancy prevention programs, as described in this report. Based on present findings, expanded funding of those initiatives is amply justified and required.

This study was funded in part by the Comprehensive Adolescent Health Care Program, Division of Maternal and Child Health, North Carolina Department of Environment, Health, and Natural Resources.



INTRODUCTION

In the past, State Center studies of adolescent health have focused on pregnancy^{1,2} and mortality.³⁻⁵ In addition, a 1984 statewide survey⁶ gathered information about unintentional injuries among children and adolescents and the associated knowledge, attitudes, and practices of their primary care givers.

More recently, momentum is growing in the state and nation for the development of research applications and intervention programs that address a whole host of unhealthy attitudes and behaviors that are developed in adolescence and may have short- or long-term negative consequences that affect individuals and society at large. *Healthy People* 2000⁷ includes a large number of national objectives that target adolescents and young adults.

Following partial participation in 1990, the North Carolina Department of Public Instruction became a full participant in 1993 with the Centers for Disease Control in the national Youth Risk Behavior Survey (YRBS) of 9th-12th grade students. The purpose is to document the problems of adolescents in order to develop realistic programs for our children. The 1993 data for North Carolina youth have recently been released.⁸

In response to the growing concern about adolescent health and unhealthy behaviors in North Carolina, the North Carolina General Assembly is now funding, through separate grant application processes, local Adolescent Pregnancy Prevention Programs (APPPs) and Comprehensive Adolescent Health Care Projects (CAHCPs). The APPPs provide a variety of programs in local communities including abstinence programs, family life education, parent workshops, community awareness campaigns, male involvement efforts, and support services for teen mothers. A total of 39 projects are currently receiving the 5-year grants: 15 health departments, nine schools, seven local councils, and eight local nonprofit agencies. A total of 30 counties are represented.

The CAHCPs are school-based and school-linked health centers operating in middle and high schools in North Carolina. To date, 14 of these centers have been funded in 14 counties across the state. Eight of these are administered by local health departments, four by private non-profit health agencies, one by a school system, and one by the Eastern Band of Cherokee Indians. The aim of the CAHCP is to increase access to comprehensive health care for youth ages 10-19. Services include: acute care; management of chronic illnesses; mental health counseling; and preventive health services such as health education, medical and dental exams, and nutrition services.

Given the above, it seems prudent at this point to conduct a comprehensive examination of the entire spectrum of adolescent health. Hopefully, the data developed and examined here will prove useful to those involved in developing ways to improve adolescent health and those potential long-term effects.

A final word of introduction: In 1994, the national KIDS COUNT ranking of states placed North Carolina 40th. That means, based on a composite score for 10 key indicators of the well-being of young children and adolescents, North Carolina was the 11th worst state in the nation. Clearly, that result is intolerable to all North Carolinians!

TECHNICAL NOTES

For the population-based rates of this report, the population bases are estimates derived from the decennial censuses and provided by the Office of State Planning. The census figures used for this purpose are from the 100-percent tabulations whereas other census results cited may represent sample tabulations.

For infant deaths, only those matched to a birth certificate are used in this report, since mother's age is required. Race designation is that determined at birth. The numerator of an infant death rate is the number of deaths among infants born during the

period of study. Although 1992 deaths are now available, 1991 is the latest birth year for which infant deaths have been matched to a birth certificate.

Due to the statistical problem of small numbers, this report includes very little county-level data. Where those data are presented, it should be noted that many of the counties' rates or percentages may be unstable due to random fluctuation associated with small numbers.

Throughout this report, reference is made to those Year 2000 national health objectives that are specific for adolescents. A complete listing of the national objectives for adolescents and young adults is provided in Appendix 1. This report is also liberally endowed with results from the 1993 Youth Risk Behavior Survey (YRBS), which is described on page 30. Appendix 2 is the actual survey instrument. It should be noted that the YRBS results do not conform exactly to the Year 2000 risk reduction objectives but are related indicators for tracking North Carolina trends.

All data in this report are for residents of the state or county. Definitions and formulas for the terms and rates of this report are found in the Glossary, beginning on page 27.

POPULATION CHARACTERISTICS

In 1990, adolescents (ages 10-19) comprised 14 percent of the state's population — 13 percent of whites and 18 percent of minorities. These figures were down from 18, 17, and 22 percent respectively in 1980.

Table 1 shows, for race and Hispanic population groups, the 1990 numbers of adolescents by age and the overall percent changes since 1980. While the numbers of white and black adolescents declined, the number of American Indians rose. However, as noted elsewhere, race-identity practices appear to have changed during the 1970s and 1980s with increased numbers of people identifying themselves as American Indians.¹⁰

Although 11,807 Hispanics aged 10-19 were counted in 1990, almost 10,000 people aged 14-17 reportedly spoke Spanish or Spanish Creole at home in 1990, according to the census. Thus, the Hispanic figures of Table 1 very likely reflect undercounts.

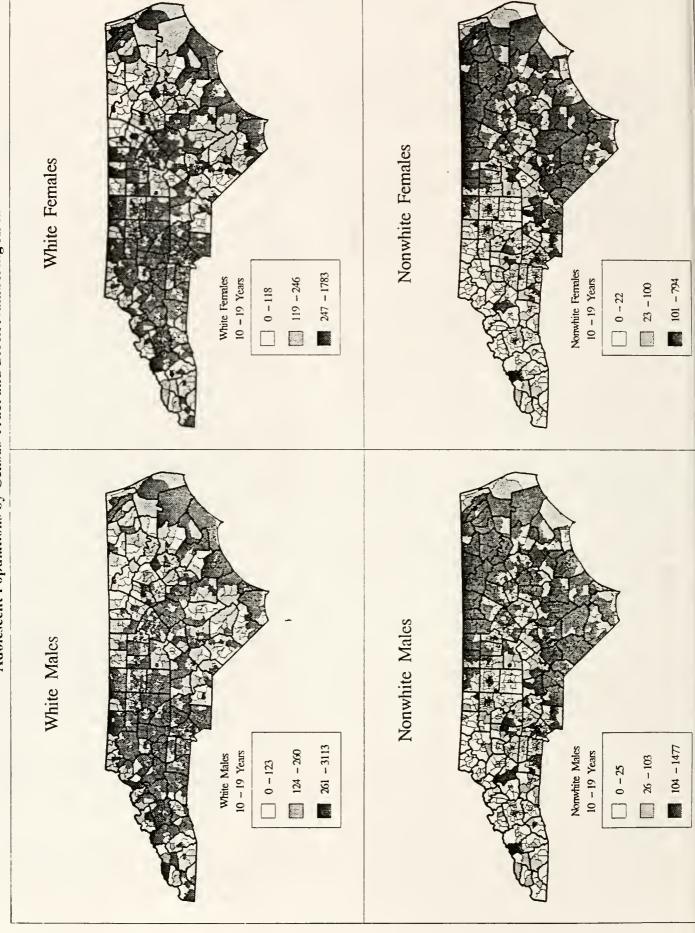
In Figure 1, shadings depict, for four race-sex groups, the number of adolescents living in census tracts (metropolitan counties) or block numbering areas (nonmetropolitan counties) in 1990 (see Glossary). The state is comprised of a combined total of 1,492 census tracts (CTs) and block numbering areas (BNAs). The three categories of each map are approximately equal in terms of the number of subdivisions (CTs and BNAs) represented.

For each race group, the male and female maps of Figure 1 are very similar. The separation by sex is intended to aid those interested solely in female counts (for estimating family planning need). The reader will note the higher concentration of minorities (nonwhites) compared to whites in the eastern part of the state.

Other available 1990 census data for North Carolina adolescents are provided in Table 2. Given that availability and comparisons to 1980 are very limited, the following findings seem notable:

- Between 1980 and 1990, the percentage of minority adolescents living in rural areas declined 13 percent, further increasing the racial difference in urban-rural distribution. In 1990, the percentages of white and minority adolescents living in rural areas were 56 and 40 respectively.
- In 1989, poverty was much more prevalent among minorities aged 12-17 (30%) than among their white counterparts (8%).
- Between 1980 and 1990, the percentage of persons 10-17 not enrolled in school rose about 30 percent for each race group to 5.7 for whites and 6.7 for minorities.

Adolescent Populations by Census Tract and Block Numbering Area Figure 1



- Among minority females 16-19, labor force participation rose 37 percent during the 1980s. All but white males experienced increases. In 1990, participation was higher and unemployment much lower among whites than minorities. More than one-fourth of minority adolescents in the civilian labor force were unemployed at the time of the 1990 census.
- Between 1980 and 1990, the percentage of females 15-19 who were married dropped 34 percent for whites and 41 percent for minorities. In 1990, white females aged 15-17 and 18-19 were far more likely to be married than were their minority counterparts.
- In 1990, one out of four children aged 12-17 lived in a single-parent household. Eighty-six percent of those children lived in households headed by a female.

Other data on the well-being of North Carolina's adolescents are taken from the national KIDS COUNT Data Book.⁹ These indicators are for data year 1991:

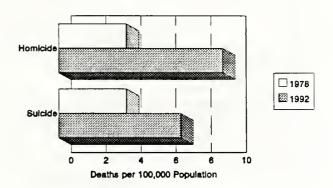
| | United States | North Carolina |
|--|------------------|-------------------|
| Percent graduating from high school on time | 68.8 | 67.3 |
| Percent teens not in school and not in labor force, ages 16-19 | 5.0 | 4.8 |

Adolescent population estimates for July 1, 1992 (the latest available) are given in Table 3. Corresponding data for counties are found in Table 4. These figures are used in the 1992 population-based rates of this report.

MORTALITY

Of all human events, probably none is more distressing than the death of a young person, especially when the death was preventable. Most adolescent deaths are due to social and behavioral causes as shown below.

FIGURE 2
Adolescent Homicide and Suicide Rates
North Carolina 1978 and 1992



Between 1978 and 1992, the state's adolescent death rate (ages 10-19) declined 17 percent, due largely to decreases in death from unintentional injuries. The motor vehicle death rate declined by one-third while the rate for other unintentional injuries dropped by one-half. Also during that period, however, the state's adolescent homicide and suicide rates rose about 140 and 80 percent respectively; see Figure 2. As a result, external causes of death continue to account for three of every four adolescent deaths in North Carolina. The remaining one in four is due most frequently to cancer, followed by heart disease and birth defects.

Table 5 compares age-race-sex-specific adolescent death rates for North Carolina (1992) to those for the U.S. (1991, the latest year available). Major disparities involve higher North Carolina rates among minority males and females aged 10-14.

In its 1991 ranking of states, KIDS COUNT shows that 22 states had a higher "teen violent death rate" than North Carolina. That death rate for ages 15-19 included deaths from homicide, suicide, and accidents.9

Cause-specific death rates for U.S. adolescents are not available for recent years, but Table 6 examines the 1990-92 cause-specific state data by age and race-sex. As expected, death rates are generally much higher for older adolescents than

for younger, for minorities of both sexes compared to whites, and for males of both races compared to females. Minority male rates are especially high. Major exceptions are the higher suicide and motor vehicle rates among whites aged 15-19. Most remarkable are the racial disparities in homicide rates; at ages 15-19, the homicide rate for minority males is nearly 13 times the rate for white males.

Concerning "other injuries," leading causes in 1992 were "conflagration (fire) in private dwelling" among decedents aged 10-14 and "accidental drowning and submersion" among decedents aged 15-19. Altogether, 13 adolescents drowned in 1992; all were male.

Due to the relatively small number of adolescent deaths, county-specific death data are not provided here. However, death counts by cause, age, and race-sex are available in the annual report, **Detailed Mortality Statistics**. Produced on microfiche, the county reports are available in county health departments or by request to the State Center.

Among the Year 2000 health objectives for the nation, ⁷ the only mortality objective targeting teenagers exclusively is to reduce suicide at ages 15-19 to a rate of 8.2 per hundred thousand persons (Objective 6.1a). The North Carolina rate was 10.7 in 1992.

Other mortality objectives target adolescents and young adults collectively. These call for the reduction of homicide among several subpopulations aged 15-34 and the reduction of total and alcohol-related motor vehicle fatalities at ages 15-24. See Objectives 4.1b, 7.1, and 9.3b of Appendix 1.

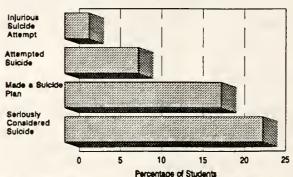
High-Risk Behaviors

Motor Vehicle Injuries—The 1993 Youth Risk Behavior Survey⁸ revealed the following about North Carolina high school students' behavior related to motor vehicles:

- Only 39 percent of students said they always wear a seat belt when riding in a car driven by someone else. The U.S. objective for all occupants of motor vehicles is at least 85 percent.
- Only 40 percent of motorcyclists said they always used a helmet when cycling during the past year. The U.S. objective for all ages is at least 80 percent.
- During the past month, one-third of students rode with a driver who had been drinking; nearly onefifth of males reported drinking and driving themselves.

Suicide—In 1993, three percent of high school students in North Carolina reported an "injurious" suicide attempt during the past year, meaning the attempt resulted in an injury, poisoning, or overdose that had to be treated by a doctor or nurse. But many more said they had during the past year attempted suicide (9%), made a suicide plan (19%), or seriously considered suicide (24%) (see Figure 3). Females and younger students were most likely to report these suicidal thoughts or attempts; blacks were less likely than whites and other races. The related national objective is to reduce by 15 percent (to 1.8%) the incidence of injurious suicide attempts among adolescents aged 14 through 17 (Objective 6.2).

FIGURE 3
Percentage of High School Students Reporting Suicidal
Thoughts or Attempts During Last 12 Months
North Carolina 1993



Source: Youth Risk Behavior Survey, N.C. Department of Public Instruction, March 1963

Homicide—Nationally, it has recently been reported that the homicide rate for black males aged 15-34 increased 55 percent between 1987 and 1991. The increase is almost entirely due to firearm homicides associated with drug trafficking; weapon carrying among young people has increased. In North Carolina in 1993, 27 percent of high school students reported carrying a weapon (gun, knife, club) one or more of the past 30 days. Other student behaviors related to homicide are discussed in the next section.

VIOLENCE

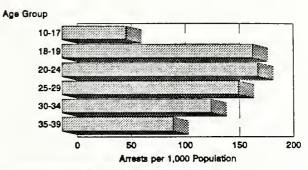
Violence has become a major public health priority in America as it exacts an increasing toll on the physical and mental health of individuals, families, and society at large. Adolescents are major contributors to that ever larger toll. Adolescents are also often the victims of violence; unfortunately, data on the associated morbidity and disability are not available. Nationally, it has been reported that one in 13 juveniles was the victim of a violent crime in 1992. The Justice Department study showed that youth aged 12-17 years were assaulted, robbed, and raped at a higher rate than any other age group, and the number of violent crimes involving victims aged 12-17 increased 24 percent between 1987 and 1992. 13

Arrests

In its ranking of states, KIDS COUNT uses the "juvenile violent crime arrest rate" (ages 10-17) as one of its key measures of the well-being of children. In 1991, only 14 states had a higher rate than North Carolina. This followed a 1985-1991 rate increase of 118 percent in North Carolina compared to 50 percent in the U.S.9

Based on counts provided by the State Bureau of Investigation (SBI), Table 7 examines the state's 1992 age-specific arrest rates and those percent changes since 1978. While the arrest rate has declined at ages 40 and above, the rates for adolescents and young adults have risen greatly, with the rate for younger adolescents (10-17) rising more

FIGURE 4
Arrest Rates for Selected Ages*
North Carolina 1992



*Age groups experiencing 1978-1992 increases.

than fifty percent. The rate at ages 18-19 (176.4) now rivals the peak rate at ages 20-24 (181.3) as shown in Figure 4.

For total adolescents, the arrest rate increased 45 percent between 1978 and 1992, to 87 arrests per 1,000 persons aged 10-19. The adolescent rates for the following offenses more than tripled: embezzlement, stolen property, weapons violations, and liquor law violations. The adolescent rates for these offenses more than doubled: murder, robbery, aggravated assault, simple assault, arson, sex offenses, gambling, and disorderly conduct.

While these increases are staggering, it should be noted that arrest rates are subject to changes in laws and perhaps arrest practices. Among adolescents, for example, the 1992 DWI arrest rate was 43 percent below the 1978 DUI arrest rate, reflecting to some extent public response to the stricter law in effect in 1992. Similarly, the state's 1987 "prison cap law" could account for increased arrests due to repeat offenses by early parolees. An increased willingness to prosecute youthful offenders may also account for some of the increase in juvenile arrests.

Based again on counts available from the SBI, the 1992 offense-specific arrest rates for adolescent age-sex groups and for race groups aged 10-17 are provided in Table 8. While race-specific data for

older adolescents are not currently available, the SBI plans to acquire those data in the future.

It is seen in Table 8, as expected, that the 1992 arrest rates were generally much higher for older adolescents than for younger; higher for males than for females; and higher for minorities than for whites aged 10-17. The sex and race differentials were slightly greater for more serious (Part 1) offenses than for lesser (Part 2) offenses. However, age differentials were greater for Part 2 offenses. Arrests for fraud, offenses against family, and DWI were especially more likely among older than younger adolescents of both sexes.

Exceptions to the above patterns include excess rates of arson at younger ages (both sexes), motor vehicle theft at younger ages (females only), fraud and embezzlement among females (ages 18-19), and DWI and liquor law violations among whites (ages 10-17). An interesting observation is the almost identical male and female prostitution rates at both younger (10-17) and older (18-19) ages.

The race and sex differentials in murder arrests are highly notable. However, the reader should be aware here as elsewhere that low rates are based on small numbers of arrests and may not be reliable. The race and sex differentials observed in drug arrest rates are probably more stable.

Incarcerations

Between 1984 and 1992, the largest increase in statewide incarceration rates occurred among persons 18-19 years old. That 56 percent increase was twice the next highest increases of 28 percent at ages 35-39 and 40-44. At 16-17 years old, the 8-year increase was 25 percent.

Using counts provided by the Department of Correction, Table 9 examines the state's 1992 adolescent incarceration rates (state prison inmates per 100,000 population) by age and those percent

changes since 1984 (earliest year available). While the rate for misdemeanors has declined by nearly three-quarters, the rate for felonies has risen 79 and 106 percent at ages 16-17 and 18-19 respectively. Particularly large increases involve homicide, robbery, and drug violations for both age groups. Notice that the 1992 rate for drug violations among youth aged 18-19 was nearly 15 times its 1984 level. The increase was even greater among persons 16-17 years old whose rate was zero in 1984. At least part of the increase is due to increased law enforcement emphasis on drug activity.

According to a source at the Department of Correction, ¹⁴ the large decrease in the misdemeanor incarceration rate is largely an artifact of the 1987 law setting limits on the number of persons incarcerated. The law was implemented by releasing most misdemeanants soon after admission, thereby reducing the misdemeanant population by one-half. ¹⁴ Due to repeat offenses by early parolees, this law may also account for some of the increase in felony incarceration rates.

Violence and Safety at School

Twenty-seven percent of all 9th-12th grade students reported carrying a weapon (gun, knife, club) in the month prior to the 1993 YRBS. Compared to results obtained in a limited YRBS conducted in 1990, the percentages of 9th and 12th grade males who carried guns more than doubled over the last three years. The 1993 survey was conducted prior to the 1993 legislation making the possession of a gun at school a felony violation.

Other highlights of the 1993 YRBS include these about violence and safety at school:

- Nearly 40 percent of students were involved in a physical fight in the previous year; 15 percent reported fighting on school property.
- Thirty-five percent reported that some personal property had been stolen or deliberately damaged on school property during the past year.

- Ten percent reported being threatened or injured by a weapon on school property during the past year.
- Five percent of students reported staying at home one or more of the past 30 days because they did not feel safe at school.

Prevention

It is obvious that cooperation and integration across public health, mental health, criminal justice, social services, education, and other social support systems are essential to developing effective prevention strategies; health programs alone cannot deal with the problem of adolescent violence. With this in mind, public health has adopted a number of Year 2000 objectives in this problem area.⁷

Objectives addressing homicide and suicide among adolescents and young adults were noted in the preceding mortality section. The reduction of "rape and attempted rape" of young women is also addressed (Objective 7.7a).

Among the Year 2000 risk reduction objectives for adolescents are a number related to the use of alcohol, marijuana, and cocaine — behaviors that often underlie violence and abuse (see related discussion beginning on page 15.) Other objectives target the incidences of physical fighting and weapon carrying among adolescents aged 14 through 17 (Objectives 7.9 and 7.10).

REPRODUCTIVE HEALTH

Live Birth, Abortion, and Pregnancy Rates

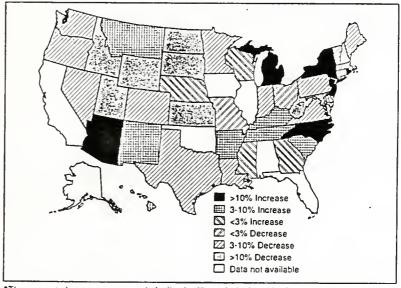
In this report, the year 1978 is used as the base since it was the first year of reliable abortion and pregnancy

counts for adolescents (due to improved abortion reporting practices). Historically, 1978 marked a half decade of legally induced abortion and a full decade of federally subsidized family planning services in North Carolina.

Since early spontaneous abortions, or miscarriages, are not reportable in North Carolina, pregnancies are defined here as the sum of live births, fetal deaths, and induced abortions (see Glossary). The age-race-specific live birth, abortion, and pregnancy rates for 1992 and percent changes since 1978 are shown in Table 10. For white adolescents, birth rates remained the same and abortion rates dropped. However, the birth and abortion rates for minority adolescents increased at all ages except 10-14. The increase in the abortion rate was particularly large among minorities aged 18-19.

As shown in Figure 5, North Carolina was one of only six states (out of 40 reporting) in which the pregnancy rate for women 15-19 increased ten percent or more between 1980 and 1990. The state's

FIGURE 5
Percent Change in Pregnancy Rates for Females Aged 15-19*
United States, 1990 Compared with 1980



The percent change was not statistically significant in Maine, Mississippi, Missouri, Montana, Nebraska, Ohio, and Wisconsin.

Source: Marbidity and Mortality Weekly Report, December 17, 1993.

increase of 12 percent largely involved an increased birth rate, which rose 18 percent. Nine states (out of 50) experienced larger birth rate increases.¹⁵

Among the 40 states reporting abortions in 1980 and 1990, 20 showed statistically significant declines in the pregnancy rate of women 15-19; 26 showed statistically significant declines in the abortion rate of women 15-19.15 A recent report by the Alan Guttmacher Institute16 cites "better use of contraceptives" and "fewer pregnant girls having abortions" as contributing factors. The Institute's study found that at least 70 percent of sexually active American teenagers are using contraceptives regularly, a finding that seems contrary to common belief. At the same time, the study found that somewhat more than half of females and almost three-quarters of males have had sexual intercourse by their 18th birthday.

For females 15-17, Table 11 displays the 1988-92 total, white, and minority birth, abortion, and pregnancy rates for the state and counties. The numbers of events underlying the rates are found in Table 12. Counties should be wary of rates based on small numbers of events.

With relatively few pregnancies among girls aged 10-14, the county-level focus on ages 15-17 rather than 15-19 is due to greater economic and child health problems among the state's younger mothers and to reports of declining age at which adolescent sexual activity begins. Among the Year 2000 national health objectives are targets of no more than 50 pregnancies per 1,000 females 17 and younger and no more than 120 pregnancies per 1,000 black females 17 and younger. From Table 10, the 1992 rate for N.C. girls aged 15-17 was above target at 67.4. The corresponding rate for minorities was below target at 107.8.

Repeat teenage pregnancy is a problem of major concern in North Carolina. In 1992, 15 out of each 1,000 girls aged 15-17 had a second or higher-order pregnancy. The rate for minorities (31.8) was four times the rate for whites (7.9). For both race

groups, the trend has been generally upward over the last several years at least.¹⁷

County-level Attributable Risk for Adolescent Pregnancy

One of the criteria used by the Adolescent Pregnancy Prevention Program (APPP) to judge the feasibility of funding a local project is this: 1s the project's home county a leading contributor to statewide adolescent pregnancy?

To answer this question, a statistical measure known as "attributable risk" (AR) is used to determine what percentage of the state's adolescent pregnancies would not have occurred if the effect of living in a particular county were absent. Details underlying the procedure are given elsewhere.¹⁸

The methodology used by APPP is to form a composite of the 25 lowest-rate counties against which to compare all other counties. The idea is that improvements in those low-rate (referent) counties would be less likely than improvements elsewhere.

With the referent group formed, both the number of adolescent pregnancies and the adolescent pregnancy rate in each nonreferent county are used to compute the county's percent attributable risk. The results for ages 10-19 in 1992 are displayed in Table 13 where the 75 nonreferent counties are ranked according to the size of AR. The 25 referent counties are then rank-ordered according to their adolescent pregnancy rates. Notice that the rate of 56.0 for the nonreferent group of counties is nearly 50 percent above the rate of 38.0 for the referent group of counties.

The interpretation of AR may be illustrated as follows: If Cumberland County's adolescent pregnancy rate (61.5) were reduced to the level of the referent counties' rate (38.0), the <u>state</u> would have 1.96 percent fewer adolescent pregnancies. AR is additive; therefore, the top ten AR counties have a combined AR of 12.37 percent and all 75 nonreferent counties have a combined AR of 28.05 percent.

Naturally, in choosing counties for an intervention program, the size of a county's AR would be of interest, though not necessarily one of the most important considerations.

Abortion Fractions

The abortion rate (discussed above) estimates the probability of a woman becoming pregnant and having an abortion. It may be compared to the birth rate. The abortion fraction, on the other hand, measures the probability of a pregnant woman having an abortion.

The statewide abortion fractions for adolescents and those 1978-1992 percent changes are displayed in the rightmost columns of Table 10. For ages 15-17 and 18-19, the fraction for whites decreased while that for minorities rose, especially at ages 18-19. At younger ages, however, pregnant minorities remain much less likely than whites to obtain an abortion.

A historical note of interest here concerns the State Abortion Fund, which was established in 1978 to pay for abortion procedures for poor women. The number of funded procedures peaked in FY 1984 at 6,645. Due to reduced funding, the number had dropped by FY 93 to 2,132. However, the fund nearly tripled in FY 94 to \$1.2 million, making abortion more accessible to low-income women. Abortion counseling and family planning information must be provided to all individuals who request state abortion funds.¹⁹

Public Family Planning Services

In the spirit of "every child a wanted child," North Carolina became in 1937 the first state to include birth control as part of its public health program.²⁰ Many years later, in 1968, federally subsidized family planning services were first offered in North Carolina.

Family planning services do more than just prevent unintentional pregnancies. A 1992 State

Center study²¹ shows that pregnant women who previously participated in public family planning services were more likely than others to receive early and adequate prenatal care and to be involved in prenatal WIC and maternity care coordination (case management). They were also less likely than nonparticipants to deliver a low-weight infant.

Most efforts to improve birth outcomes in the United States have focused on the period of pregnancy, especially increasing the use of prenatal care. Preconceptional interventions may also be effective, however, because a healthy pregnancy begins *before* pregnancy. For this reason, the Institute of Medicine and others have proposed increasing the use of family planning services as a preventive strategy to combat high rates of low birthweight and infant mortality.²¹

In North Carolina in 1978, "active" public family planning patients numbered 90,337. A total of 25,905 (28.7%) were under 20 years old. For ages 15-19, about 23 percent of the estimated need was met. Estimates of need for public family planning services are from the Alan Guttmacher Institute.²²

By 1992, the number of active public family planning patients under age 20 had risen to 44,924, representing 33.2 percent of total patients. For ages 15-19, about 34 percent of need was met, an increase of 48 percent since 1978.

In North Carolina, public family planning services are provided through the Women's Preventive Health Services Program, as described on page 20.

Selected Live Birth Statistics

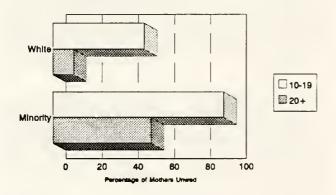
For adolescent age groups and total mothers aged 10-19, Table 14 shows by race the numbers of 1992 live births, selected percentages, and those changes since 1978. The categories shown are often associated with economic and child health problems among adolescent mothers.

The number of births to white adolescents and to minorities aged 15-17 was lower in 1992 than 15 years ago. This is due to reduced numbers of adolescents (Table 1) rather than reduced adolescent birth rates (Table 10).

The most dramatic change over the last 15 years is the rising percentage of adolescent mothers who are unwed. That percentage for whites nearly tripled, to 50.5, while the percentage for minorities rose 20 percent, to 94.5. The percentage increases were especially great at ages 18-19 compared to younger ages.

As expected, adolescent mothers are much more likely than older mothers to be unwed. The race-specific percentages for 1992 are displayed in Figure 6.

FIGURE 6
Percentage of Mothers Unwed by Race and Age
North Carolina 1992



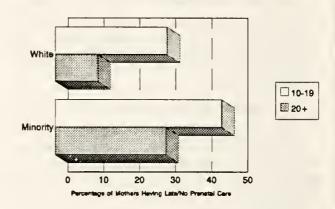
In its ranking of states, KIDS COUNT uses the "percent of all births that are to single teens" as one of its key measures of children's well-being. In 1991, only seven states had a higher percentage than North Carolina.9

As the percentage of births to unwed mothers has increased, so has the percentage of adolescent mothers having their second or higher-order pregnancy, as indicated approximately by birth order two or more. For each race group aged 10-19, that percentage rose 34 percent with even larger increases occurring among the state's very young

mothers (ages 10-14). At all ages but especially younger ages, the minority percentage is much higher than the white.

On an encouraging note, the state's adolescent mothers of both races are less likely now than formerly to receive late or no prenatal care. Still, more than one-third of mothers 18-19 and higher percentages of younger mothers did not receive first-trimester care in 1992. Lack of early prenatal care is much more a problem of adolescents than older mothers and of minorities than whites, as shown in Figure 7.

FIGURE 7
Percentage of Mothers Having Late/No Prenatal Care by Race and Age
North Carolina 1992



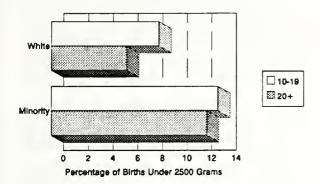
For the 5-year period 1988-92, Table 15 displays by race the adolescent numbers and percentages of late/no care for the state and counties. More than 60 percent of all adolescent mothers in Iredell, Lenoir, Scotland, and Wayne counties received late/no care. In another 18 counties, more than half of all adolescent mothers had late or no prenatal care. The Year 2000 national objective is that at least 90 percent of all women receive care in the first trimester.⁷

Finally, as among newborns in general, the babies of adolescent mothers have experienced little change over the last 15 years in the incidence of low birthweight (under 2500 grams). That percentage remains virtually unchanged for whites while decreasing only slightly (5.6%) for minorities

(Table 14). Low-birthweight rates among mothers aged 10-14 have decreased, however.

As shown in Figure 8, low birthweight remains a greater problem for adolescent than for older mothers, especially among whites. The white-minority differential in low birthweight is somewhat less pronounced among adolescent than older mothers, however.

FIGURE 8
Percentage of Births Under 2500 Grams by Race and Age
North Carolina 1992



Reporting on maternal smoking was added to the North Carolina birth certificate in 1988. As shown in Table 16, white adolescents giving birth in 1992 were far more likely to smoke than were their minority counterparts. Moreover, among whites, adolescent mothers (29%) were more likely to smoke than were older mothers (19%). The reverse was found among minorities; adolescent mothers (8%) were half as likely as older mothers (17%) to smoke.

Items related to maternal medical history have also been added to the birth certificate. However, for adolescents especially, the quality of those data and the small numbers involved preclude analysis at this time.

Enhanced Prenatal Care

Nonmedical prenatal services such as health and nutrition education and supplemental food programs have been shown to be effective in reducing poor pregnancy outcomes among low-income women.^{23,24}

For adolescent age groups, Table 17 shows 1988-1992 trends in the percentages of white and minority live births by type of service received: Medicaid, WIC, and health department prenatal care. Increased percentages are observed throughout except that the percentages for health department prenatal care all declined in 1992, perhaps reflecting a shift of Medicaid mothers to care in the private sector.

For the services depicted in Table 17, the percentages are generally higher for younger than for older adolescents and higher for minorities than for whites, although the age and race gaps narrowed between 1988 and 1992. During this period, the income eligibility level for Medicaid rose from 100 to 185 percent of the federal poverty level, which served to increase the percentages of pregnant women receiving WIC and health department prenatal care.

Table 18 shows, for adolescent age groups, the 1988-1992 percentages of Medicaid births where prenatal WIC or maternity care coordination (case management) was received. Again, the percentages for younger and minority adolescents are higher than those for older and white adolescents. An increasing percentage of mothers in all age-race groups received maternity care coordination after the service was first offered in 1988. Still, in 1992, about one-half of eligible adolescents in each age-race group did not receive the service.

Efforts to increase the number of women on Medicaid who receive maternity care coordination and WIC should result in savings in the cost of newborn medical care. The studies cited above estimate that for every \$1 spent on maternity care coordination, the Medicaid program saves \$2 in early infant medical care costs; one dollar spent on WIC is estimated to save Medicaid \$3 in newborn costs. ^{23,24}

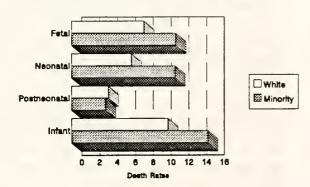
The WIC program and the state's Maternal Health Program are described on page 20 of this report.

Fetal and Infant Mortality

For each type of death (fetal, neonatal, postneonatal, infant), Table 19 shows death rates by race and age for adolescent mothers giving birth in 1991. Due to small numbers, data for ages 10-14 are not shown separately. Generally, the minority rates are higher than the white, an exception being the higher postneonatal death rate among white mothers aged 15-17. Differences between younger and older adolescents are not as great as one might expect. In fact, the fetal and neonatal death rates are higher for white mothers aged 18-19 than for white mothers aged 15-17.

For adolescent mothers, Figure 9 depicts the fetal, neonatal, postneonatal, and infant death rates by race. Each of these rates represents substantial improvement over the last 15 years with the infant death rate for each race group down nearly 50 percent since 1978. The white fetal death rate has dropped least (12%) while the minority postneonatal death rate has declined most (60%).

Fetal, Neonatal, Postneonatal, and Infant Death Rates by Race North Carolina Mothers 10-19, Birth Year 1991



For the 215 infant deaths among adolescent mothers (10-19) who gave birth in 1991, Table 20 shows the numbers and death rates for major causes of death by race.

Sexually Transmitted Diseases (STDs)

Compared to 1978, adolescents aged 10-14 in 1992 experienced increased rates of syphilis and gonorrhea while older adolescents experienced an increased syphilis rate (up 173%) but reduced gonorrhea rate (down 17%). The gonorrhea reduction involved all race-sex groups aged 15-19 except minority males whose rate rose 65 percent.

Assuming consistent reporting practices over time, the observed increases are disturbing. Also disturbing are the state-national differentials observed in gonorrhea. Compared to the U.S. in 1991 (latest year available), 25 the state's 1992 gonorrhea rate was 115 percent higher at ages 10-14 and 80 percent higher at ages 15-19. Differences in racial distribution may account for some of the state's apparent excess.

For syphilis, gonorrhea, and chlamydia (the last not reportable until 1986), Table 21 examines the state's 1992 adolescent incidence rates in age and race-sex detail. Wide disparities are observed with older adolescents, females of both races, and minorities of both sexes exhibiting exceedingly high rates. The one exception is the approximately equal rates of gonorrhea among minority males and females aged 15-19.

While the age-race-sex differentials are striking, the reader should keep in mind that infectious disease counts are subject to testing and reporting biases, which tend to underrepresent people tested in the private sector.

In general, STD rates are higher at ages 20-24 than at younger ages. For white and minority females, however, the 1992 rates of gonorrhea and chlamydia both peaked at ages 15-19.

Concerning adolescent AIDS, three cases aged 15-19 were reported in 1992: two were white males, one a minority male. Many more individuals actually acquire the HIV infection during adolescence, however.

The only Year 2000 national health objective directly addressing adolescent STDs is to reduce the gonorrhea rate at ages 15-19 to no more than 750 per 100,000 (Objective 19.1b). From Table 21, the corresponding state rate was more than twice as high at 1,675 in 1992.

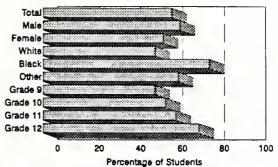
Sexual Behaviors

The 1993 statewide survey of high school students (YRBS) revealed the following behaviors related to adolescent sexual activity. Other details by gender and by age, grade, and race are available from the Youth Risk Behavior Survey.⁸

- Sixty-two percent of students said they had had sexual intercourse. Percentages were higher for males, minorities, and grades 11 and 12 (see Figure 10).
- Thirty-nine percent of students were sexually active by age 15, 59 percent by age 17.
- Among sexually active students, 28 percent had had only one partner, 22 percent had had six or more; 15 percent said they drank or used drugs prior to their last sexual intercourse; 81 percent said they or their partner used some method of birth control at last intercourse (includes withdrawal); 51 percent said they or their partner used a condom at last intercourse.
- Eight percent of males reported they had gotten someone pregnant at least once. Nine percent of females said they had been pregnant at least once.
- Seven percent of both males and females said they had ever been told by a doctor or nurse that they had a sexually transmitted disease.

National objectives targeting reduced adolescent sexual activity and protected sex among sexually active adolescents are listed in Appendix 1, Objectives 5.4-5.6, 18.4a, and 18.4b.

FIGURE 10
Percentage of High School Students
Who Ever Had Sexual Intercourse
North Carolina 1993



Source: Youth Risk Behavior Survey, N.C. Department of Public Instruction, March 1993.

ALCOHOL, TOBACCO, AND OTHER DRUG USE

Data from the 1993 Youth Risk Behavior Survey show that alcohol continues to be the drug most frequently used by high school students in North Carolina. Nearly three-quarters of students reported ever using it, and 44 percent reported use in the past 30 days (Figure 11). Other significant findings for alcohol use include these:

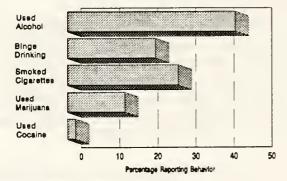
- Nearly one-quarter of students participated in binge drinking (5 of more drinks on one occasion) during the last month.
- During the past month, one-third rode with a driver who had been drinking and nearly onefifth of male students reported drinking and driving themselves.
- One in five students reported that parental drinking had caused them problems in the past year.

Concerning tobacco use, 56 percent of all students had ever smoked cigarettes with 29 percent smoking in the last month (Figure 11). Blacks were less likely than others to smoke and to use smokeless tobacco.

Nearly 30 percent of students reported ever using marijuana with 15 percent using it in the past month (Figure 11). Ever-use of marijuana, cocaine, and steroids was higher among students of other races than among whites and blacks.

A particularly notable finding may be that nearly half of high school students reported they had never or only once during the past year received information about alcohol or drugs in health or other school classes. *Further*, nearly 60 percent reported that never or only once in the past year had they received information from their parents about alcohol or drugs.

FIGURE 11
Percentage of High School Students Reporting
Specified Behavior During Last 30 Days
North Carolina 1993



Source: Youth Red Behavior Survey, N.C. Department of Public Instruction, March 1983

National objectives for substance use/abuse are numbers 3.5-4.11 of Appendix 1.

NUTRITION

Overweight

Overweight is a major cause of preventable disease. The greatest health risk of overweight in adolescence is its persistance into adulthood and the resulting risk of heart disease, diabetes, and stroke.

Body Mass Index (BMI) is calculated by dividing weight in kilograms by the square of height in meters. The cutpoints used to define overweight

are the age-sex-specific 85th percentile values for the combined samples of U.S. children examined in the first two National Health and Nutrition Examination Surveys (NHANES I and NHANES II, 1971-1980).²⁶

Data from NHANES II and NHANES III show that 15 and 21 percent of U.S. adolescents aged 12-19 were overweight in 1976-80 and 1988-91 respectively. The U.S. objective for adolescent overweight is to prevent an increase above the 1976-80 baseline of 15 percent (Objective 2.3 in Appendix 1).

Using 1988-91 data from the state's Child Health Program (see page 19), Table 22 shows, for each age and sex, the numbers and percentages of total, white, and black adolescents above the NHANES 85th percentile. The numbers of cases were insufficient to examine the data for American Indians and Hispanics.

The percentages of Table 22 will be used as baselines against which to compare future prevalences of overweight among health department adolescents. Compared to 29.3 percent in 1988-91, the overall prevalences of overweight among Child Health Program participants aged 12-18 were 30.8 and 29.6 percent in 1992 and 1993 respectively.

Risk Factors

The following data are again derived from the 1993 YRBS:

• Asked about foods they consumed the previous day, the following percentages of high school students said they did not eat the specified foods: fruit or fruit drink, 32%; green salad or raw or cooked vegetables, 46%; hamburger, hot dogs, sausage, or barbecue, 48%; French fries or potato chips, 36%; cookies, doughnuts, pie, or cake, 40%. Males and blacks were more likely than females and whites to eat the "high-fat" foods.

- Asked about their body weight, 19 percent of students said they were slightly or very underweight, 33 percent said slightly or very overweight.
- Compared to the opposite sex, males (33%) were more likely trying to gain weight, while females (55%) were more likely trying to lose weight.
- To lose or keep from gaining weight, the following percentages of students reported the specified behavior during the past 7 days: dieted, 6%; exercised, 23%; exercised and dieted, 15%; made themselves vomit, 2%; took diet pills, 2%; vomiting and diet pills, 1%.

PHYSICAL FITNESS

Conducted in 1992, the North Carolina Children and Youth Fitness Study (NCCYFS)²⁸ was designed to measure the physical fitness and physical activity patterns of children in grades 1, 3, 6, and 9. Comparing these results to corresponding information from national surveys reveals that North Carolina children have lower scores on most fitness measures, especially body composition, cardiorespiratory, and flexibility tests. The NCCYFS also revealed that North Carolina parents seldom exercise with their children and that schools offer physical education only one day per week on average. The study showed that a child's fitness assessments were correlated with his television viewing time and his parents' activity levels.

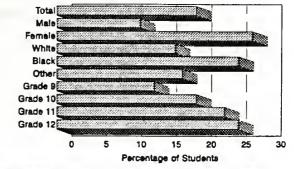
From the 1993 YRBS, the following results relate to physical activity levels reported by high school students:

Twenty percent of high school students reported that, during the seven days preceding the survey, they did not exercise or participate in sports activities for at least 20 minutes that made them sweat and breathe hard. The percentage was higher for females (28%) and blacks (26%) and increased with advancing

- grade level to 26% for seniors, as shown in Figure 12.
- Compared to doing aerobic activities, students were even less likely to do exercises to strengthen or tone their muscles.
- More than half (53%) of all high school students and three-quarters of juniors and seniors said they attended no physical education (PE) classes during an average school week.
- Among those taking PE, 80 percent reported exercising or playing sports for more than 20 minutes during an average class.
- Nearly 60 percent of students said that, outside PE, they had played on **no** school sports team during the past year. The percentage was higher for females, minorities, and seniors.

In Appendix 1, Objectives 1.3 and 1.4 establish fitness goals for youth. The NCCYFS and YRBS results should provide the necessary impetus for improving the quantity and quality of physical education in North Carolina schools. For more information, contact Shellie Pfohl, Executive Director of the North Carolina Governor's Council on Physical Fitness and Health, at (919) 733-9615.

FIGURE 12
Percentage of High School Students Who Reported No Episode of Aerobic Exercises During Last 7 Days
North Carollna 1993



Source: Youth Risk Behavior Survey, N.C. Department of Public Instruction, March 1993.

ORAL HEALTH

A stratified cluster sample of North Carolina public school classrooms in school year 1986-87 resulted in a total of 3,076 oral examinations of adolescents aged 12-17 years.²⁹ Results showed a substantial decline in decayed, missing, and filled teeth (DMFT) scores compared to a decade earlier. For whites, DMFT scores declined from 5.9 in 1976 to 3.1 in 1986. For minorities, the corresponding decline was from 4.7 to 2.9. Scores were particularly high for some population groups such as 17-year-old minority females.

For all ages 12-17 years, minorities had sealants about half as often as whites, and gum disease was more prevalent among minorities. Minorities had a strikingly higher prevalence of tartar above and below the gum line, and the prevalence of receding gums was also higher among minorities than whites.

As specified in Appendix 1, Year 2000 health objectives for the nation's adolescents include three related to oral health. They call for the reduction of dental caries, the reduction of untreated dental caries, and an increase in protective sealants on the occlusal (chewing) surfaces of permanent molar teeth. See Objectives 13.1, 13.2, and 13.8.

CAHCP SURVEYS

Beginning in Fall 1994, certain schools associated with the Comprehensive Adolescent Health Care Projects (CAHCPs) are conducting independent surveys of students and their parents in order to examine adolescent health and risk behaviors in relation to the use of school-based health services. The student survey will provide a profile of who uses (does not use) what services, users' levels of satisfaction with the services, and the effect of the services on users and their families. The data from 1994 will be used for planning purposes and for baselines against which to measure changes over time.

USE OF HEALTH SERVICES

Many adolescents lack access to health care. Many are without health insurance of any kind, or their insurance programs cover few if any preventive health services. The Southern Institute on Children and Families reports that an estimated 89,000 North Carolina youths aged 11-17 had no health insurance in March 1991.³⁰ This number represents about 15 percent of the population aged 11-17.

Meanwhile, data on the use of resources are very limited in North Carolina. Except for publicly funded services, we have no data on the use of hospital outpatient and nonhospital health services. The North Carolina Medical Database Commission (MDC) expects to acquire those data in the future, however. Data on same-day surgeries are only months away, and data on services provided through home health and by physicians' offices are expected to follow. Eventually, the MDC hopes to establish a statewide medical claims clearinghouse to collect data on all types of health services.

In the meantime, here is what we do know about the use of health care resources by the state's adolescent population.

Hospital Discharges

Data on hospital inpatient services are routinely collected by the Medical Database Commission. Age-specific data are not routinely available, however.

For selected primary diagnoses, Table 23 provides numbers and rates for adolescents discharged from North Carolina hospitals during 1991, the latest year for which data were accessible. Child-birth and reproductive complications accounted for 43 percent of adolescent hospitalizations; mental disorders and injury/poisoning each accounted for just over 10 percent, genitourinary diseases for under five percent. Pulmonary diseases and diabetes were next most frequent among the selected diagnoses.

The most frequently reported mental disorders were "affective psychoses" followed by "adjustment reaction." Among injuries and poisonings, "poisoning by analgesics, antipyretics, and antirheumatics" was the leading diagnosis followed closely by several specific fractures. "Inflammatory disease of female pelvic organs" and "infections of kidney" led the list of genitourinary diseases, and asthma was by far the most frequently reported chronic pulmonary disease.

Patient's race and the external cause of injuries are not included in hospital discharge reporting. These data are needed to document the racial and cause-of-injury factors associated with adolescent hospital morbidity.

An examination of the rates of Table 23 is left to the interested reader.

Health Check: Healthy Children and Teens Program

Formerly called Early and Periodic Screening, Diagnosis, and Treatment (EPSDT), this program for Medicaid-eligible youth (ages 0-20) is administered by the Division of Medical Assistance, N.C. Department of Human Resources.

In FY 89 (earliest year of unduplicated counts), a total of 7,259 youth aged 10-18 years were screened. By FY 93, that number had increased 36.5 percent to 9,905. In FY 93, county health departments performed 18 percent of the screenings of adolescents compared to 31 percent of the screenings of younger children.

Depending on financial and medical eligibility, Medicaid may pay for a variety of health services for adolescents.

Mental Health/Substance Abuse

Based on data provided by the Division of Mental Health, N.C. Department of Human Resources, the numbers of North Carolina adolescents in state institutions for treatment of substance abuse and mental illness have declined (Table 24). At the same time, the number of youth served by area mental health centers increased markedly between FY 1984 (earliest year of comparable data) and CY 1992 (Table 25). The number treated for substance abuse tripled while the numbers treated for mental illness and developmental disability rose 53 and 34 percent respectively. The substance abuse and mental illness increases were especially great for younger and minority youth. These increases occurred over a period in which the adolescent population generally declined.

Health Services Information System (HSIS)

HSIS is an automated reporting system used by local health departments and special contract providers (over 700 sites) to report on the delivery of public health services. Data for HSIS programs that serve a sizable number of adolescents are given below. These programs are administered by the Division of Maternal and Child Health.

Child Health Program

The primary objective of this program is to provide health services to children from birth up to 21 years of age. Both screening and treatment services are provided through local health departments. In 1992, a total of 4,727 screening services and 9,131 other services were provided to persons aged 12-20 years.

Children's Special Health Services (CSHS)

Formerly called the Crippled Children's Program (1936-1985), CSHS provides comprehensive health care for financially and medically eligible youth (ages 0-20) with chronic disabling conditions. It involves a network of specialty clinics located in health departments, medical centers, developmental evaluation centers, and private physicians' offices.

In FY 93, a total of 2,569 youth aged 12-19 years were served in the clinics: 68% in orthopedic, 19% in speech and hearing, 7% in neurology, and 2% in cardiology. The remaining 4% were seen in neuromuscular, oral/facial, pulmonary, myelodysplasia, and hematology/oncology clinics.

CSHS also provides reimbursement for office visits, hospitalizations, therapy, drugs, equipment, and other services for eligible youth. In FY 93, reimbursement was made for 2,441 adolescents aged 10-19 years.

Maternal Health Program

Through local health departments, most of the state's 100 counties provide prenatal and postpartum clinical examinations, counseling, and supervision to pregnant women. A network of 18 high-risk maternity clinics has been established; these serve mainly multi-county areas and provide multidisciplinary care to high-risk patients.

Between FY 1985 and CY 1992, the number of adolescents served by the program more than doubled, nearly tripling at younger ages (under 18).

In 1992, clinic and other maternity services numbered 62,816 for women under age 18 and 79,261 for women aged 18-19. More than half of the services were clinic visits, about 40 percent were for maternity care coordination. See Table 18 and the corresponding discussion on page 13 concerning Medicaid mothers' use of maternity care coordination.

Supplemental Food Program for Women, Infants, and Children (WIC)

Funded by the U.S. Department of Agriculture, this program provides nutrition education for low-income women and children and vouchers for the purchase of specific foods and infant formula. Eligible persons include pregnant/breastfeeding/postpartum women and children up to age 5 who are at medical or nutritional risk.

For adolescents who delivered a liveborn infant in 1992, Table 26 shows the percentages of prenatal WIC participants by race, marital status, and education. As already described, trends in prenatal WIC participation are given in Table 17 (all adolescent mothers) and Table 18 (Medicaid adolescent mothers).

Women's Preventive Health Services Program

Also known as "family planning," these services include contraceptive care, preconceptional risk assessment, counseling and referral, health screening, and basic infertility evaluation. These services are targeted to low-income women.

For adolescent age groups, Table 27 shows percentages of 1992 patients by race, marital status, education, poverty status, Title XIX (Medicaid) reimbursement, and contraceptive method. For adolescents as a whole, family planning patients are predominantly not married, not (yet) high school educated, and below 100 percent of poverty. A high percentage use birth control pills.

ADOLESCENT HEALTH AS A LOCAL PUBLIC HEALTH PRIORITY

Each biennium in North Carolina, statisticians from the State Center provide data and conduct workshops to assist local health departments in a needs assessment process called *Community Diagnosis*. After data analysis and other local considerations, health departments then report to the state health director **up to five** priority health problems for each county. Those results are reported in turn to state and regional staff who may assist a county in developing and implementing its proposed interventions.³¹

In 1994, this process resulted in 31 of the state's 100 counties identifying teen pregnancy as a priority health problem in their county; no other problem was cited more often. These counties are:

| Avery | Lee | Stanly* |
|------------|-------------|--------------|
| Bertie | Lincoln* | Stokes |
| Carteret | McDowell | Swain |
| Caswell | Mitchell | Transylvania |
| Cumberland | Pender | Vance |
| Duplin* | Person | Wake |
| Durham | Polk* | Wayne |
| Granville | Richmond | Wilson |
| Hertford | Rowan* | Yancey |
| Hoke* | Rutherford* | |
| Iredell | Sampson | |

^{*}County reported teen pregnancy as their number one priority.

Nine other counties reported the general category "adolescent health" as a problem of major concern. These counties are: Camden, Chatham, Chowan, Davie, Haywood, Montgomery, Northampton, Pasquotank, and Perquimans. This was Chatham County's top priority. Eight counties reported adolescent drug and alcohol abuse as a major public health problem: Caswell, Chatham, Granville, New Hanover, Richmond, Surry, Wake, and Warren. Richmond County reported this problem as its number one priority.

HEALTHY CAROLINIANS 2000

Keenly aware of North Carolina's unfavorable ranking on many of the national health status indicators, Governor James G. Martin established in August 1991 the Governor's Task Force on Health Objectives for the Year 2000. The deliberations of this 25-member body resulted in the November 1992 publication of North Carolina objectives addressing 11 broad areas of concern. For adolescents and young adults, specific improvement targets were established for motor vehicle fatalities, pregnancy, dental decay, physical fitness, nutrition (obesity), sexually transmitted diseases, and substance abuse (tobacco, marijuana, and alcohol).³²

The report of the Task Force emphasizes community-based intervention strategies. To date, leaders in 52 of the state's 100 counties have plans to

develop responsive health improvement plans for their communities; 21 counties already have active task forces. By the end of 1994, an additional seven counties were expected to have active task forces.

For more information about *Healthy Carolinians 2000*, contact Sarah Ahmad, Project Director, at (919) 715-4173.

SUMMARY

This study of the health status of North Carolina's adolescent population reveals some positive changes over time but a number of disturbing trends and patterns that need attention and action. These findings are highlighted below.

Mortality

- Reductions in unintentional injury deaths have been accompanied by large increases in adolescent homicide and suicide. Hence, external causes of death continue to account for three of every four adolescent deaths in North Carolina.
- Death rates are generally much higher for older adolescents than for younger ones, for minorities than for whites, and for males than for females. Minority male rates are especially high. Major exceptions are the higher suicide and motor vehicle fatality rates among whites aged 15-19.
- At ages 15-19, the homicide rate for minority males is 13 times the rate for white males.

Violence

- The arrest rate for adolescents rose 45 percent between 1978 and 1992 with rates for several very serious offenses more than doubling. The arrest rate at ages 18-19 now rivals the peak rate at ages 20-24.
- Arrest rates are generally higher for older, male, and minority adolescents.

- Between 1984 and 1992, adolescents became much less likely to be incarcerated in state prisons for misdemeanor crimes but much more likely to be incarcerated for felonious crimes, especially homicide, robbery, drug violations, and burglary/breaking/entering.
- The large decrease in the misdemeanor incarceration rate results from the state's 1987 prison cap law. Due to repeat offenses by early parolees, that law may also explain some of the increase in arrest and felony incarceration rates.

Reproductive Health

- Between 1978 and 1992, the birth rate, abortion rate, and abortion fraction of minority adolescents all rose. The abortion increases were particularly large among minority women aged 18-19.
- For all races combined, the state's 1980 to 1990 increases in adolescent pregnancy, birth, and abortion rates are in contrast to downturns in many other states.
- In 1994, 31 of the state's 100 counties reported adolescent (teen) pregnancy as one of their top five health problems. No other problem was cited more often.
- Following an upward trend, 15 of each 1,000 female population aged 15-17 had a second or higher-order pregnancy in 1992. The rate for minorities was four times the rate for whites.
- A rising percentage of births to adolescent mothers represent a second or higher-order pregnancy. The 1992 percentages were 31 for whites and 41 for minorities.
- The most dramatic change in live birth statistics is the rising percentage of adolescent mothers who are unmarried. The increase has been especially great at ages 18-19. Among adolescents giving birth in 1992, more than half of whites and nearly 95 percent of minorities were unwed.

- Among adolescents giving birth in 1992, whites were especially likely to smoke.
- The percentage of adolescent mothers receiving late or no prenatal care has declined but remains high, especially at younger ages and among minorities. In 22 counties, more than half of adolescent mothers received late or no care during 1988-92.
- Following recent increases in adolescent use of health department prenatal care, prenatal WIC, and Medicaid newborn care, the percentage of adolescent mothers receiving health department prenatal care declined in 1992, suggesting a shift of Medicaid mothers to care in the private sector.
- Adolescent mothers on Medicaid experienced large increases in maternity care coordination (case management) after the service was first offered in 1988, but many still do not receive the service.
- In 1992, minority adolescents were more likely than whites to use the services cited above.
- Following virtually no improvement in recent years, low birthweight rates remain high among adolescent mothers, especially minorities.
- For adolescent mothers of both races, infant mortality declined nearly 50 percent between 1978 and 1991. The minority rates of fetal and infant mortality remained higher than the white rates, except white mothers aged 15-17 experienced higher postneonatal loss.
- Younger adolescents have experienced increased rates of both syphilis and gonorrhea. Although gonorrhea has declined somewhat at ages 15-19, the state's rate is still far above the national rate.
- Exceedingly high rates of syphilis, gonorrhea, and chlamydia are observed among older, female, and minority adolescents except that

- gonorrhea rates for minority males and females aged 15-19 are about equal.
- In 1992, three cases of adolescent AIDS were reported, but many more individuals actually acquire the HIV infection during adolescence.

Use of Health Services

- Childbirth and reproductive complications accounted for 43 percent of adolescent hospitalizations during 1992. Mental disorders and injury/poisoning each accounted for just over ten percent.
- Among public programs that serve adolescents, the following appear to have experienced substantial growth during the recent past: Health Check: Healthy Children and Teens, Area Mental Health Centers, WIC, and Maternal Health.

In addition to the above findings, this report is replete with information about the health-related behaviors of adolescents as measured by the 1993 Youth Risk Behavior Survey of 9th-12th grade students. The various indicators will be tracked over time as the Department of Public Instruction conducts this survey on a biennial basis. This report also reveals a high prevalence of overweight among adolescent clients of health departments and low levels of physical fitness among the state's child and adolescent populations.

CONCLUSION

Health care is more than medical care alone; it includes the prevention and control of disease and injury rather than simply their treatment.³³ How will adolescents fare in the proposed world of health care reform? No one knows for sure, but public health must do its part in the areas of prevention and primary care.

In North Carolina, public health is committed to expanding its role in the area of adolescent health. School-based health centers (CAHCPs) and local adolescent pregnancy prevention programs (APPPs) are a reality. We must now measure the outcomes of those efforts, fix what is wrong, and extrapolate the successful experiences to reach adolescents statewide. Otherwise, the negative consequences of unhealthy behaviors developed in adolescence will continue their upward trends.

Results of the biennial Youth Risk Behavior Survey will be most helpful in defining adolescent needs statewide, and the CAHCP surveys will define those needs for local school jurisdictions. But certain data deficiencies remain, most notably (1) lack of data on hospital outpatient and nonhospital health services and (2) failure to collect patient's race and the external cause of injuries in hospital discharge reporting. These data are needed to quantify and describe adolescent morbidity and disability, particularly that associated with violence and abuse. The development and use of these data is crucial to making informed decisions that meet the changing needs of the state's adolescent population. The state's Medical Database Commission is working toward the acquisition of data specified in (1) above, but (2) above remains a data problem of substantial concern. All services reported to the Medical Database Commission should include patient's race and the external cause of injuries in the required dataset.

It is hoped that the legislature will see the need to expand its funding of adolescent health programs. For more information about those mentioned above (CAHCPs and APPPs), the reader should contact the Division of Maternal and Child Health of the Department of Environment, Health, and Natural Resources. Also, grant-funded adolescent parenting programs are operated through the Division of Social Services, Department of Human Resources.

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GLOSSARY

- **Abortion -** Induced abortion, or the intentional interruption of pregnancy. Early spontaneous abortions are not reportable in North Carolina.
- **Abortion Fraction -** The number of induced abortions per 1,000 pregnancies (live births plus fetal deaths plus abortions).
- **Abortion Rate** The number of induced abortions per 1,000 females in the population.
- Adolescent For this report, a person aged 10 through 19 years.
- Age-Specific Rates Events in the age group per 1,000 or 100,000 population in the age group. Events may be births, abortions, pregnancies, deaths, diseases, arrests, etc.
- APPP Adolescent Pregnancy Prevention Program.
- Arrest Rate Arrests per 1,000 or per 100,000 population.
- **Birth Defect -** Any abnormal condition present at birth, not including injuries caused by the delivery. These are ICD-9 codes 740-759.
- Birth Order The sum of previous children now living, previous children born alive and now dead, and previous fetal deaths (any gestational age) plus one for the present birth. Previous induced abortions may be included, effective with the 1988 revised birth certificate.
- Birth Rate The number of live births per 1,000 females in the population.
- Block Numbering Area (BNA) Small statistical subdivisions of a county for grouping and numbering blocks in nonmetropolitan counties where local census statistical areas committees have not established census tracts. State agencies and the Census Bureau delineated BNAs for the 1990 census, using guidelines similar to those for the delineation of census tracts (see definition). BNAs do not cross county boundaries.
- **CAHCP** Comprehensive Adolescent Health Care Project.
- Causes of Death All diseases, morbid conditions, or injuries that either resulted in or contributed to death and in the case of injuries, the circumstances of the injury or violence. In this report, deaths are tabulated by <u>underlying</u> cause of death (see definition).
- Census Tract Small, relatively permanent statistical subdivisions of a county. They are delineated for all metropolitan areas and other densely populated counties by local census statistical areas committees following Census Bureau guidelines.
- Census tracts usually have between 2,500 and 8,000 persons and, when first delineated, are designed to be homogeneous with respect to population characteristics, economic status, and living conditions. Census tracts do not cross county boundaries. The spatial size of census tracts varies widely depending on the density of settlement. Census tract boundaries are delineated with the intention of

being maintained over a long time so that statistical comparisons can be made from census to census. However, physical changes in street patterns caused by highway construction, new development, etc., may require occasional revisions; census tracts occasionally are split due to large population growth, or combined as a result of substantial population decline.

Note: Figure 1 of this report depicts for race-sex groups the numbers of adolescents (ages 10-19) living in census tracts (metropolitan counties) and block numbering areas (nonmetropolitan counties). Data are from the U.S. Census 1990.

Death - The permanent disappearance of any evidence of life at any time after live birth. N.C. law (G.S. 90-322) also defines criteria for certifying "brain death."

Deliveries - The total number of live births plus fetal deaths of 20 or more weeks gestation.

DUI - Driving under the influence.

DWI - Driving while impaired.

Fetal Death - Death prior to the complete expulsion or extraction from its mother of a product of human conception, irrespective of the duration of pregnancy, as indicated by the fact that after such expulsion or extraction the fetus does not breathe or show any evidence of life, such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles (definition adopted by World Health Organization in 1950). Consistent with North Carolina law, this report includes only fetal deaths that do not qualify as therapeutic abortions and which result from pregnancies of 20 or more weeks gestation.

Felony - A serious crime such as murder, rape, or burglary.

Fetal Death Rate - Fetal deaths per 1,000 deliveries (live births plus fetal deaths).

Incarceration Rate - State prison inmates per 100,000 population.

ICD: International Classification of Diseases - A numerical system used worldwide for classifying all causes of death. The Ninth Revision was first applied to 1979 deaths.

Infant Death - Death of a liveborn child under one year of age. Infant deaths are the sum of neonatal and postneonatal deaths (see definitions).

Infant Death Rate - The number of infant deaths per 1,000 live births.

Late or No Prenatal Care - No care during the first trimester (three months) of pregnancy.

Live Birth - The complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of pregnancy, which, after separation, breathes or shows any other evidence of life, such as beating of the heart, pulsation of the umbilical cord, or any definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached (definition adopted by World Health Organization in 1950).

- Low Birthweight 2500 grams (5 pounds, 8 ounces) or less at birth, regardless of the period of gestation (World Health Organization 1950).
- Maternity Care Coordination A formal case management process with a primary focus on the organization of services and resources to respond to the health care needs of a pregnant woman who has been determined to be eligible for Medicaid.
- **Medicaid** A public assistance program that pays for the medical care of people who are eligible for cash assistance payments or who have medical needs greater than their resources. The largest share of Medicaid costs is paid by the federal government.
- **Misdemeanor -** An offense of lesser gravity than a felony, punishable by imprisonment for no more than two years.
- Neonatal Death Death of a liveborn child under 28 days of age.
- Neonatal Death Rate Neonatal deaths per 1,000 live births.
- Postneonatal Death Death of an infant 28 days and over but less than one year of age.
- **Postneonatal Death Rate** Postneonatal deaths per 1,000 neonatal survivors (live births minus neonatal deaths).
- **Pregnancies** The total number of live births plus fetal deaths of 20 or more weeks gestation plus induced abortions.
- Pregnancy Rate The number of pregnancies per 1,000 females in the population.
- Race As used by the Census Bureau, race reflects self-identification; it does not denote any clear-cut biological definition.
- White--Includes persons who indicate their race as white (Caucasian) or report entries such as Canadian, German, Italian, Lebanese, Near Easterner, Arab, or Polish.
- **Nonwhite or Minority--**Race other than white. Blacks account for about 90 percent of the state's nonwhite or minority population.
- Repeat Pregnancy A second or higher-order pregnancy resulting in live birth, fetal death, or induced abortion.
- Residence The place (county, state, etc.) in which a person resides at the time of an event. College students and military personnel are considered residents of the college or military community. For deaths of inmates of long-term institutions, the institution is considered the residence if the decedent has resided there at least one year. For births, residence is that of the mother.

- Underlying Cause of Death (a) The disease or injury that initiated the chain of morbid events leading to death, or (b) the circumstances of the injury or violence that produced the fatal injury.
- Unmarried (Unwed) Mother At time of giving birth, woman has never been legally married or has been widowed or legally divorced from her husband in excess of 280 days.
- Violent Deaths Deaths due to homicide, suicide, motor vehicle and other injuries, and legal intervention.
- WIC The Special Supplemental Food Program for Women, Infants, and Children. This nationwide program, funded by the U.S. Department of Agriculture, provides nutrition education for low-income women and children and vouchers for the purchase of specific supplemental foods and infant formula. Eligible persons include pregnant/breast-feeding/postpartum women, infants, and children up to age 5 who are at medical or nutritional risk.
- Youth Risk Behavior Survey (YRBS) A biennial survey of 9th-12th grade students conducted by the N.C. Department of Public Instruction in collaboration with the Centers for Disease Control. In 1993, 71 N.C. schools were selected as survey sites from a base of 407 public schools containing approximately 300,000 students in grades 9-12. Fifty-nine schools and 2,531 students participated in the survey. In all, 2,439 students completed usable surveys. The survey instrument is Appendix 2 of this report.

TABLES



Table 1

Adolescent Population Counts by Age, Race, and Hispanic Origin with Percent Changes Since 1980

North Carolina 1990

| Age | <u>Total</u> | Whites | <u>Blacks</u> | American <u>Indians*</u> | Hispanic <u>Origin**</u> |
|-----------------------------|--------------|---------|---------------|-----------------------------|-----------------------------|
| 10-14 | 436,840 | 298,640 | 124,437 | 7,665 | 5,319 |
| 15-17 | 270,733 | 185,896 | 76,430 | 4,779 | 2,900 |
| 18-19 | 227,097 | 160,741 | 59,204 | 3,330 | 3,588 |
| Total 10-19 | 934,670 | 645,277 | 260,071 | 15,774 | 11,807 |
| 1980-1990 Percent Change | -10.9 | -12.9 | -9.2 | +10.7 | +2.2 |

^{*}Includes a small number of Eskimos and Aleuts.

^{**}Persons of Hispanic origin may be of any race.

Table 2
Sociodemographic Indicators for Adolescents by Race
North Carolina 1990

| | Total | White | Minority |
|---|-------|-------|----------|
| <u>Demographics</u> Persons 10-19: | | | |
| Percent males | 51.2 | 51.6 | 50.4 |
| Males per 100 females | 104.8 | 106.3 | 101.5 |
| Percent rural | 51.0 | 55.9 | 40.1 |
| Economics Persons 12-17: | | | |
| Percent below poverty 1989 | 15.3 | 8.2 | 30.2 |
| Education Persons 10-17: | | | |
| Percent not enrolled in school | 6.0 | 5.7 | 6.7 |
| Persons 16-19: Percent civilian, not in school, | | | |
| not high school graduate | 12.4 | 12.2 | 12.7 |
| | | | |
| Employment Males 16-19: | | | |
| Percent in labor force | 54.8 | 58.7 | 45.5 |
| Females 16-19: | 40.0 | 50.4 | 43.4 |
| Percent in labor force Males 16-19 in civilian labor force: | 49.0 | 52.4 | 41.4 |
| Percent unemployed | 14.9 | 11.6 | 25.3 |
| Females 16-19 in civilian labor force: | 14.0 | | • (0 |
| Percent unemployed | 16.0 | 12.2 | 26.8 |
| Family Structure Own Children 12-17 in Families: | | | |
| Percent in married-couple family Percent in male-householder family | 75.6 | NA | NA |
| (no spouse present) | 3.5 | NA | NA |
| Percent in female-householder family (no spouse present) | 20.9 | NA | NA |
| | | | |
| Marital Status Females 15-17: | | | |
| Percent married and not separated | 2.2 | 2.7 | 0.9 |
| Females 18-19: | 10.0 | 12.2 | £ 2 |
| Percent married and not separated | 10.9 | 13.3 | 5.2 |

Source of Data:

Published census materials and computer printouts.

NA-Not Available.

Table 3

Adolescent Population Counts by Age, Race, and Sex
North Carolina 1992

| | Total | Whites | Minor | rities | | |
|-------------|---------|----------------|---------|----------------|---------|----------------|
| <u>Age</u> | Males | Females | Males | <u>Females</u> | Males | <u>Females</u> |
| 10-14 | 223,587 | 214,744 | 156,338 | 148,146 | 67,249 | 66,598 |
| 15-17 | 133,580 | 128,889 | 93,930 | 88,463 | 39,650 | 40,426 |
| 18-19 | 109,763 | 105,086 | 79,765 | 74,690 | 29,998 | 30,396 |
| Total 10-19 | 466,930 | 448,719 | 330,033 | 311,299 | 136,897 | 137,420 |

Table 4
Adolescent Population Counts by Race, Age, and Sex
North Carolina and Counties 1992

| | • | • | WH | WHITES | • | ç | 1 | ; | MINO | MINORITIES | • | 6 |
|----------------|---------|---------|--------|---------|--------|---------|--------|--------|--------|------------|--------|---------|
| | 10 | 10-14 | CI CI | 15-17 | 28 | 18-19 | 9 | 10-14 | 15 | 15-17 | 138 | 18-19 |
| RESIDENCE | Males | Females | Males | Females | Males | Females | Males | LT. | Males | Females | Males | Females |
| North Carolina | 156,338 | 148,146 | 93,930 | 88,463 | 79,765 | 74,690 | 67,249 | 66,598 | 39,650 | 40,426 | 29,998 | 30,396 |
| COUNTY | | | | | | | | | | | | |
| Alamance | 2,488 | 2,325 | 1,446 | 1,329 | 1,434 | 1,445 | 730 | 743 | 439 | 490 | 317 | 336 |
| Alexander | 903 | 098 | 220 | 503 | 406 | 351 | 78 | 59 | 20 | 47 | 32 | 22 |
| Alleghany | 313 | 273 | 187 | 155 | 119 | 114 | 9 | 9 | 2 | 9 | 4 | - |
| Anson | 380 | 338 | 247 | 220 | 156 | 148 | 501 | 525 | 284 | 316 | 173 | 190 |
| Ashe | 695 | 629 | 453 | 409 | 279 | 254 | 9 | 4 | S | 8 | 4 | 4 |
| Avery | 464 | 463 | 281 | 280 | 392 | 309 | ∞ | 3 | 9 | 9 | 36 | 10 |
| Beaufort | 945 | 891 | 581 | 516 | 381 | 378 | 617 | 592 | 342 | 379 | 205 | 229 |
| Bertie | 246 | 216 | 147 | 132 | 98 | 73 | 553 | 612 | 325 | 322 | 173 | 209 |
| Bladen | 519 | 547 | 361 | 310 | 228 | 214 | 537 | 521 | 308 | 298 | 177 | 192 |
| Brunswick | 1,275 | 1,186 | 753 | 729 | 516 | 512 | 437 | 419 | 257 | 250 | 165 | 151 |
| Buncombe | 4,829 | 4,658 | 2,958 | 2,761 | 1,936 | 1,985 | 642 | 604 | 415 | 394 | 239 | 215 |
| Burke | 2,191 | 2,009 | 1,430 | 1,363 | 938 | 830 | 247 | 246 | 328 | 151 | 212 | 95 |
| Cabarrus | 2,842 | 2,667 | 1,692 | 1,564 | 1,125 | 1,079 | 591 | 198 | 372 | 374 | 252 | 255 |
| Caldwell | 2,075 | 2,003 | 1,358 | 1,285 | 915 | 898 | 172 | 154 | 16 | 101 | 62 | 65 |
| Camden | 155 | 122 | 95 | 11 | 99 | 49 | 99 | 52 | 34 | 28 | 24 | 19 |
| Carteret | 1,502 | 1,417 | 922 | 832 | 655 | 551 | 247 | 233 | 129 | 132 | 84 | 94 |
| Caswell | 383 | 367 | 235 | 207 | 168 | 137 | 290 | 297 | 182 | 192 | 129 | 114 |
| Catawba | 3,425 | 3,255 | 2,152 | 2,082 | 1,496 | 1,469 | 521 | 479 | 334 | 325 | 223 | 228 |
| Chatham | 895 | 774 | 458 | 439 | 361 | 312 | 348 | 322 | 206 | 197 | 130 | 115 |
| Cherokee | 609 | 652 | 376 | 371 | 256 | 261 | 27 | 24 | 19 | 20 | 15 | Ξ |
| Chowan | 260 | 262 | 147 | 142 | 86 | 102 | 254 | 240 | 121 | 118 | 74 | 71 |
| Clay | 248 | 219 | 143 | 139 | 89 | 72 | 3 | 2 | 2 | 0 | 0 | 0 |
| Cleveland | 2,074 | 1,981 | 1,284 | 1,237 | 927 | 698 | 756 | 735 | 498 | 471 | 312 | 294 |
| Columbus | 1,152 | 1,089 | 657 | 959 | 451 | 432 | 827 | 179 | 417 | 475 | 247 | 282 |
| Craven | 1,925 | 1,930 | 1,108 | 1,120 | 984 | 779 | 1,024 | 949 | 287 | 109 | 332 | 397 |

Table 4 (continued)
Adolescent Population Counts by Race, Age, and Sex
North Carolina and Counties 1992

| | | | WH | WHITES | | | | | MINO | MINORITIES | | |
|-------------|-------|---------|-------|---------|-------|---------|-------|--------------|-------|------------|-------|--------------|
| | = | 10-14 | 31 | 15-17 | = | 18-19 | 1 | 10-14 | 15 | 15-17. | = | 18-19 |
| RESIDENCE | Males | Females | Males | Females | Males | Females | Males | Females | Males | Females | Males | Females |
| Counterland | 5 776 | 5.543 | 3.278 | 3,116 | 4,783 | 2,465 | 4,362 | 4,406 | 2,448 | 2,528 | 2,393 | 1,762 |
| Currituck | 449 | 417 | 227 | 230 | 155 | 140 | 19 | 73 | 45 | 37 | 30 | 22 |
| Dare | 662 | 640 | 369 | 343 | 235 | 232 | 36 | 41 | 27 | 13 | 91 | 14 |
| Davideon | 3 752 | 3.478 | 2.316 | 2,129 | 1,573 | 1,497 | 551 | 542 | 339 | 354 | 220 | 232 |
| Davie | 852 | 790 | 537 | 459 | 356 | 344 | 105 | 98 | 49 | 65 | 43 | 42 |
| | 808 | 864 | 581 | 481 | 362 | 350 | 586 | 596 | 336 | 348 | 208 | 225 |
| Ducham | 2 903 | 2.778 | 1.719 | 1.601 | 1,986 | 1,763 | 2,616 | 2,621 | 1,534 | 1,572 | 1,383 | 1,801 |
| Forman | 731 | 683 | 439 | 426 | 314 | 304 | 1,452 | 1,439 | 831 | 861 | 499 | 537 |
| Lagorombo | 5611 | 5.403 | 3.343 | 3,242 | 2,454 | 2,503 | 2,626 | 2,605 | 1,673 | 1,750 | 1,122 | 1,187 |
| Franklin | 806 | 708 | 457 | 437 | 495 | 397 | 552 | 522 | 324 | 312 | 210 | 225 |
| | 4 810 | 4 598 | 3.046 | 2 883 | 2.108 | 2.066 | 1.069 | 1,002 | 636 | 631 | 378 | 409 |
| Catas | 184 | 151 | • | 79 | 58 | 59 | 158 | 175 | 92 | 80 | 59 | 58 |
| Cares | 723 | 201 | 143 | 125 | 92 | 80 | 25 | 22 | 15 | 91 | 12 | ∞ |
| Generalle | 714 | 702 | 426 | 424 | 274 | 269 | 562 | 535 | 344 | 326 | 246 | 241 |
| Greene | 305 | 257 | 172 | 138 | 111 | 92 | 282 | 308 | 178 | 174 | 123 | 112 |
| Cuilford | 7 066 | 6 545 | 4 276 | 3.890 | 3.523 | 4,281 | 3,648 | 3,507 | 2,131 | 2,190 | 2,191 | 2,857 |
| Halifa, | 796 | 715 | 448 | 433 | 314 | 294 | 1,402 | 1,387 | 751 | 785 | 456 | 465 |
| Hamat | 1 669 | 1651 | 983 | 982 | 842 | 1,055 | 692 | <i>LL</i> 19 | 423 | 432 | 263 | 290 |
| Hawsood | 1.328 | 1.235 | 808 | 775 | 561 | 517 | 30 | 35 | 20 | 24 | 15 | 15 |
| Henderson | 2,002 | 1,822 | 1,154 | 1,063 | 740 | 714 | 148 | 135 | 70 | 65 | 54 | 52 |
| Hertford | 262 | 249 | 146 | 145 | 208 | 168 | 588 | 919 | 317 | 351 | 229 | 199 |
| Hoke | 321 | 300 | 204 | 162 | 152 | 128 | 664 | 633 | 417 | 375 | 312 | 238 |
| H | 130 | 109 | 70 | 64 | 99 | 39 | 92 | 62 | 43 | 37 | 27 | 27 |
| lredell | 2.452 | 2,356 | 1,522 | 1,429 | 1,006 | 1,005 | 653 | 645 | 422 | 393 | 271 | 273 |
| Jackson | 648 | 599 | 388 | 394 | 923 | 956 | 160 | 143 | 88 | 87 | 80 | <u>&</u> |
| | | | | | | | | | | | | |

Table 4 (continued)
Adolescent Population Counts by Race, Age, and Sex
North Carolina and Counties 1992

| | | | WH | WHITES | | | | | MINO | MINORITIES | | |
|-------------|--------|---------|-------|---------|-------|---------|-------|---------|-------|------------|----------|---------------|
| | 01 | 10-14 | 15-17 | -17 | 31 | 18-19 | 10-14 | -14 | 15 | 15-17 | = | 18-19 |
| RESIDENCE | Males | Females | Males | Females | Mates | Females | Males | Females | Males | Females | Males | Males Females |
| Johnston | 2.228 | 2.070 | 1.392 | 1,256 | 958 | 920 | 626 | 099 | 372 | 396 | 235 | 257 |
| Jones | 186 | 172 | 86 | 108 | 09 | 78 | 143 | 153 | 78 | 89 | 52 | 99 |
| Lee | 1,081 | 1,050 | 591 | 586 | 398 | 402 | 462 | 478 | 792 | 277 | 169 | 165 |
| Lenoir | 1,064 | 995 | 647 | 583 | 458 | 399 | 1,072 | 1,018 | 611 | 999 | 356 | 413 |
| Lincoln | 1,512 | 1,467 | 941 | 933 | 646 | 009 | 188 | 210 | 911 | 118 | 11 | 84 |
| McDowell | 1,136 | 972 | 753 | 702 | 481 | 439 | 59 | 70 | 41 | 34 | 28 | 31 |
| Macon | 662 | 635 | 410 | 356 | 224 | 225 | 13 | 22 | 52 | 13 | 99 | = |
| Madison | 546 | 489 | 350 | 291 | 314 | 345 | 寸 | 8 | 2 | च | 29 | 4 |
| Martin | 430 | 450 | 274 | 236 | 168 | 173 | 476 | 492 | 288 | 294 | 186 | 179 |
| Mecklenburg | 10,842 | 10,416 | 6,360 | 6,234 | 4,855 | 5,023 | 6,233 | 6,337 | 3,626 | 3,866 | 2,420 | 2,785 |
| Michell | 450 | 428 | 260 | 227 | 154 | 162 | - | 2 | - | - | 0 | 0 |
| Montgomery | 573 | 491 | 346 | 297 | 254 | 191 | 296 | 278 | 212 | 661 | 126 | 107 |
| Moore | 1,408 | 1,357 | 819 | 743 | 528 | 553 | 544 | 502 | 276 | 275 | 181 | 170 |
| Nash | 1,690 | 1,636 | 1,030 | 266 | 889 | 657 | 1,043 | 1,087 | 597 | 657 | 417 | 446 |
| New Hanover | 2,814 | 2,796 | 1,791 | 1,670 | 1,848 | 2,022 | 1,106 | 1,081 | 644 | 189 | 419 | 475 |
| Northampton | 217 | 195 | 143 | 120 | 91 | 75 | 524 | 508 | 265 | 288 | 193 | 991 |
| Onslow | 3,180 | 3,040 | 1,698 | 1,559 | 4,750 | 1,613 | 1,160 | 1,133 | 578 | 605 | 1,485 | 432 |
| Orange | 1,975 | 1,945 | 1,102 | 1,123 | 2,254 | 2,913 | 633 | 558 | 326 | 312 | 475 | 662 |
| Pamlico | 239 | 238 | 139 | 144 | 66 | 94 | 811 | 137 | 28 | 65 | 36 | 42 |
| Pasquotank | 189 | 645 | 382 | 373 | 225 | 237 | 544 | 520 | 271 | 285 | 247 | 292 |
| Pender | 640 | 572 | 399 | 359 | 291 | 249 | 415 | 361 | 225 | 193 | 120 | 117 |
| Permiimans | 217 | 222 | 121 | 123 | 75 | 80 | 158 | 137 | 74 | 82 | 38 | 43 |
| Person | 641 | 636 | 398 | 385 | 256 | 269 | 343 | 318 | 218 | 213 | 148 | 153 |
| Pir | 2 077 | 1 927 | 1.219 | 1.099 | 2.044 | 2.250 | 1.608 | 1,728 | 991 | 1,052 | 747 | 692 |
| Polk | 370 | 330 | 203 | 194 | 118 | 131 | 48 | 34 | 40 | 24 | 21 | 13 |
| | | | | | | | | | | | | |

Table 4 (continued)
Adolescent Population Counts by Race, Age, and Sex
North Carolina and Counties 1992

| RESIDENCE Mates Females Mates | | • | ; | MM; | WHITES | ; | 9 | • | | MINO | MINORITIES | • | Ş |
|---|---------------------|--------|---------|----------|---------|-------|--------------|-------|---------|-------|------------|-------|---------|
| ENCE Mates Females Fema | | | +1-1 | <u>'</u> | /1- | ~ | 2-1 3 | = | + | Ľ | /1- | 2 | -19 |
| ph 3.246 3.139 1,948 1,871 1,300 1,309 263 271 161 152 106 mid 985 914 679 620 440 404 683 647 1,40 300 263 gham 2,096 1,123 1,27 1,66 824 838 664 652 440 390 253 gham 2,096 1,553 1,049 972 709 626 301 260 187 441 296 263 nn 664 630 453 349 750 750 449 473 423 nn 664 630 635 381 323 750 410 409 423 410 420 420 nn 664 630 635 381 324 730 420 423 433 nn 664 630 435 881 734 88 | RESIDENCE COUNTY | Males | Females | Males | Females | Males | Females | Males | Females | Males | Females | Males | Females |
| ond 988 914 679 620 440 468 647 440 90 263 673 672 672 480 3287 3401 1,981 1,933 1,333 <td>Randolph</td> <td>3,246</td> <td>3,139</td> <td>1,948</td> <td>1,871</td> <td>1,300</td> <td>1,309</td> <td>263</td> <td>271</td> <td>191</td> <td>152</td> <td>106</td> <td>86</td> | Randolph | 3,246 | 3,139 | 1,948 | 1,871 | 1,300 | 1,309 | 263 | 271 | 191 | 152 | 106 | 86 |
| n 1,163 1,123 795 692 525 489 3,287 3,301 1,981 1,994 1,233 1,133 1,136 824 889 664 622 419 441 296 1,233 1,194 1,136 1,194 1,194 411 294 1,233 1,194 1,194 411 296 419 441 296 road 1,667 1,533 1,049 972 700 626 641 672 419 413 423 road 1,664 630 436 436 630 560 450 470 | Richmond | 985 | 914 | 629 | 620 | 440 | 404 | 683 | 647 | 440 | 390 | 263 | 227 |
| gham 2,096 1,952 1,270 1,166 824 838 664 652 419 441 296 ord 2,940 2,814 1,736 1,683 1,194 1,091 712 795 419 441 296 ord 1,667 1,533 1,049 972 709 626 301 260 187 194 109 on 1,016 990 655 598 430 369 750 450 466 247 n 1,016 990 655 598 430 369 750 490 466 247 n 1,016 1,92 1,83 33 369 750 490 466 247 39 39 491 | Robeson | 1,163 | 1,123 | 795 | 692 | 525 | 489 | 3,287 | 3,301 | 1,981 | 1,994 | 1,233 | 1,328 |
| Ord 1,667 1,553 1,049 972 709 626 301 260 187 194 403 ond 1,667 1,553 1,049 972 709 626 301 260 187 194 109 on 664 630 655 598 430 369 750 450 450 466 247 d 1,016 990 655 598 430 369 750 450 450 466 247 d 1,457 1,442 879 881 35 764 114 72 494 471 490 450 474 490 450 477 48 371 478 38 38 38 38 38 38 38 38 38 38 38 38 38 38 38 39 48 37 48 38 38 39 48 39 48 39 | Rockingham | 2,096 | 1,952 | 1,270 | 1,166 | 824 | 838 | 664 | 652 | 419 | 441 | 296 | 302 |
| ord 1,667 1,553 1,049 972 709 626 301 260 187 194 109 nn 1,016 990 653 598 430 369 750 450 450 466 247 n 664 630 436 381 332 383 724 730 420 466 247 1,192 1,142 879 880 625 598 301 260 189 494 271 1,192 1,142 879 880 625 494 88 20 750 499 521 1,911 1,142 88 168 565 494 88 36 494 88 37 1,911 1,12 1,185 835 764 114 126 88 83 189 189 83 83 83 149 449 83 149 149 89 83 149 | Rowan | 2,940 | 2,814 | 1,736 | 1,683 | 1,194 | 1,091 | 712 | 795 | 419 | 473 | 423 | 355 |
| 1,016 990 655 598 430 369 750 790 450 466 247 4,457 1,442 879 881 332 383 724 730 420 494 271 4,457 1,442 879 881 625 598 870 494 871 4,145 1,442 879 881 625 598 870 470 420 449 271 4,457 1,442 879 881 625 598 870 549 481 880 4,191 1,723 1,142 1,185 835 764 114 126 54 48 31 4,841 4,04 469 417 62 50 84 31 74 5,545 2,545 1,542 1,471 1,040 1,010 673 650 402 424 257 649 610 394 391 262 289 745 739 2,646 476 301 10,330 9,859 5,806 5,739 5,268 5,416 3,671 3,707 2,104 2,171 1,978 10,330 9,859 5,806 5,739 5,268 5,416 3,671 3,707 2,104 2,171 1,978 2,346 2,311 1,421 1,206 953 878 1,491 1,473 873 895 568 1,918 1,718 1,239 1,070 812 743 113 127 76 66 46 1,387 1,247 797 768 534 534 531 1,46 611 406 4,47 4,41 301 271 205 193 93 5 4 5 1 4,44 4,41 301 271 205 193 93 5 4 5 1 5,40 5,40 5,40 5,40 5,40 5,40 5,40 5,40 5,40 5,40 5,40 5,40 5,40 6,40 6,40 6,40 6,40 6,40 6,40 6,40 7,40 7,40 7,40 7,40 7,40 7,40 7,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 9,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 9,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 9,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 9,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 9,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 9,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 8,40 9,40 8,40 8,40 8,40 8,40 8,40 8,40 9,40 8,40 8,40 8,40 8,40 8,40 8,40 9,40 8,40 | Rutherford | 1,667 | 1,553 | 1,049 | 972 | 407 | 626 | 301 | 260 | 187 | 194 | 109 | 120 |
| d 664 630 436 381 332 383 724 730 420 494 271 1,457 1,442 879 880 625 598 301 270 169 172 106 1,192 1,107 729 681 565 494 88 626 494 88 301 200 169 172 106 1,911 1,723 1,142 1,185 835 764 114 126 54 48 31 76 117 106 106 117 106 117 </td <td>Sampson</td> <td>1,016</td> <td>066</td> <td>655</td> <td>865</td> <td>430</td> <td>369</td> <td>750</td> <td>790</td> <td>450</td> <td>466</td> <td>247</td> <td>291</td> | Sampson | 1,016 | 066 | 655 | 865 | 430 | 369 | 750 | 790 | 450 | 466 | 247 | 291 |
| 1,457 1,442 879 880 625 598 301 270 169 172 106 1192 1,107 1,142 1,185 1,185 1,185 1,145 1,145 1,145 1,185 | Scotland | 664 | 630 | 436 | 381 | 332 | 383 | 724 | 730 | 420 | 494 | 271 | 272 |
| L,192 1,107 729 681 505 494 88 80 54 48 38 1,911 1,723 1,142 1,185 835 764 114 126 54 48 31 53 53 48 53 568 484 401 469 417 62 50 84 31 74 117 174 179 74 41 39 75 117 174 117 < | Stanfy | 1,457 | 1,442 | 879 | 880 | 625 | 865 | 301 | 270 | 169 | 172 | 106 | 115 |
| Ivania 1,911 1,723 1,142 1,185 835 764 114 126 54 59 53 264 195 158 126 98 83 169 154 139 76 117 264 195 158 126 29 21 79 74 41 39 76 117 2,545 2,545 1,542 1,471 1,040 1,010 673 650 402 424 257 649 610 394 391 262 289 745 739 466 476 367 370 2,104 2,171 1,978 257 10,330 9,889 5,806 5,739 5,268 5,416 3,671 3,707 2,104 2,171 1,978 2,6 10,330 134 129 89 99 308 310 187 46 476 476 476 476 476 476 4 | Stokes | 1,192 | 1,107 | 729 | 189 | 505 | 494 | 88 | 80 | 54 | 48 | 38 | 36 |
| Vania | Surry | 1,911 | 1,723 | 1,142 | 1,185 | 835 | 764 | 114 | 126 | 54 | 59 | 53 | 40 |
| Ivania 785 668 484 401 469 417 62 50 84 31 74 79 85 40 52 29 21 79 74 41 39 19 2,545 2,545 1,542 1,471 1,040 1,010 673 650 402 424 257 649 610 394 391 262 289 745 739 466 476 301 10,330 9,859 5,806 5,739 5,268 5,416 3,671 3,707 2,104 2,171 1,978 2,57 10,330 9,859 5,806 5,739 5,268 5,416 3,671 3,707 2,104 2,171 1,978 2,57 10,330 1,14 1,29 89 99 308 310 187 165 98 2,306 2,131 1,421 1,206 953 878 1,491 1,473 87 | Swain | 264 | 195 | 158 | 126 | 86 | 83 | 169 | 154 | 139 | 92 | 117 | 44 |
| 79 85 40 52 29 21 79 74 41 39 19 2,545 2,545 1,542 1,471 1,040 1,010 673 650 402 424 257 649 610 394 391 262 289 745 739 466 476 301 10,330 9,859 5,806 5,739 5,268 5,416 3,671 3,707 2,104 2,171 1,978 2,57 gton 203 160 114 91 59 54 437 389 256 2,771 1,978 2,57 154 257 154 257 154 257 154 257 154 257 301 258 256 270 154 9 36 378 114 11 11 11 11 11 11 11 11 11 11 11 11 11 12 12 12 <td>Transylvania</td> <td>785</td> <td>899</td> <td>484</td> <td>401</td> <td>469</td> <td>417</td> <td>62</td> <td>50</td> <td>84</td> <td>31</td> <td>74</td> <td>55</td> | Transylvania | 785 | 899 | 484 | 401 | 469 | 417 | 62 | 50 | 84 | 31 | 74 | 55 |
| 2,545 2,545 1,542 1,471 1,040 1,010 673 650 402 424 257 649 610 394 391 262 289 745 739 466 476 301 203 160 114 91 59 54 437 389 256 270 154 a 924 852 543 505 1,479 1,801 1,473 873 895 568 2,306 2,131 1,421 1,206 953 878 1,491 1,473 873 895 568 1,918 1,718 1,239 1,070 812 743 113 127 76 66 46 1,387 1,247 797 768 534 533 1,146 1,146 691 701 406 920 878 582 508 379 377 40 40 25 29 27 474 441 301 271 205 193 93 593 5 680 | Tyrrell | 79 | 85 | 40 | 52 | 29 | 21 | 79 | 74 | 41 | 39 | 19 | 27 |
| 649 610 394 391 262 289 745 739 466 476 301 10,330 9,859 5,806 5,739 5,268 5,416 3,671 3,707 2,104 2,171 1,978 gton 203 160 114 91 59 54 437 389 256 270 154 a 207 239 134 129 89 99 308 310 187 165 98 a 924 852 543 505 1,479 1,801 1,471 11 10 91 1,918 1,718 1,239 1,070 812 743 113 76 66 46 1,387 1,247 797 768 534 533 1,146 691 701 406 920 878 582 508 379 93 5 4 5 7 | Union | 2,545 | 2,545 | 1,542 | 1,471 | 1,040 | 1,010 | 673 | 650 | 402 | 424 | 257 | 264 |
| 10,330 9,859 5,806 5,739 5,268 5,416 3,671 3,707 2,104 2,171 1,978 203 160 114 91 59 54 437 389 256 270 154 301 187 165 98 99 308 310 187 165 98 302 134 129 89 99 308 310 187 165 98 303 134 129 1,479 1,801 14 11 11 10 91 2,306 2,131 1,421 1,206 953 878 1,491 1,473 873 86 46 1,918 1,718 1,239 1,070 812 743 113 127 76 66 46 1,387 1,247 797 768 534 533 1,146 1,146 691 701 406 920 878 441 | Vance | 649 | 610 | 394 | 391 | 262 | 289 | 745 | 739 | 466 | 476 | 301 | 299 |
| gton 203 160 114 91 59 54 437 389 256 270 154 a 207 239 134 129 89 99 308 310 187 165 98 a 924 852 543 505 1,479 1,801 14 11 11 10 91 2,306 2,131 1,421 1,206 953 878 1,491 1,473 873 895 568 1,918 1,718 1,239 1,070 812 743 113 127 76 66 46 1,387 1,247 797 768 534 533 1,146 691 701 406 920 878 582 508 379 377 40 40 25 29 27 474 441 301 271 205 193 9 5 4 5 1 <td>Wake</td> <td>10,330</td> <td>9,859</td> <td>5,806</td> <td>5,739</td> <td>5,268</td> <td>5,416</td> <td>3,671</td> <td>3,707</td> <td>2,104</td> <td>2,171</td> <td>1,978</td> <td>2,290</td> | Wake | 10,330 | 9,859 | 5,806 | 5,739 | 5,268 | 5,416 | 3,671 | 3,707 | 2,104 | 2,171 | 1,978 | 2,290 |
| glon 207 239 134 129 89 99 308 310 187 165 98 a 924 852 543 505 1,479 1,801 14 11 11 10 91 2,306 2,131 1,421 1,206 953 878 1,491 1,473 873 895 568 1,918 1,718 1,239 1,070 812 743 113 127 76 66 46 1,387 1,247 797 768 534 533 1,146 1,146 691 701 406 920 878 582 508 379 377 40 40 25 29 27 474 441 301 271 205 193 9 5 4 5 1 | Warren | 203 | 160 | 114 | 91 | 59 | 54 | 437 | 389 | 256 | 270 | 154 | 159 |
| a 924 852 543 505 1,479 1,801 14 11 11 11 10 91 2,306 2,131 1,421 1,206 953 878 1,491 1,473 873 895 568 1,918 1,718 1,239 1,070 812 743 113 127 76 66 46 1,387 1,247 797 768 534 533 1,146 1,146 691 701 406 920 878 582 508 379 377 40 40 25 29 27 474 441 301 271 205 193 9 5 4 5 1 | Washington | 207 | 239 | 134 | 129 | 86 | 66 | 308 | 310 | 187 | 165 | 86 | 108 |
| 2,306 2,131 1,421 1,206 953 878 1,491 1,473 873 895 568 1,918 1,718 1,239 1,070 812 743 113 127 76 66 46 1,387 1,247 797 768 534 533 1,146 1,146 691 701 406 920 878 582 508 379 377 40 40 25 29 27 474 441 301 271 205 193 9 5 4 5 1 | Watauga | 924 | 852 | 543 | 505 | 1,479 | 1.801 | 14 | Ξ | Ξ | 10 | 91 | 76 |
| 1,918 1,718 1,239 1,070 812 743 113 127 76 66 46 1,387 1,247 797 768 534 533 1,146 1,146 691 701 406 920 878 582 508 379 377 40 40 25 29 27 474 441 301 271 205 193 9 5 4 5 1 | Wayne | 2,306 | 2,131 | 1,421 | 1,206 | 953 | 878 | 1,491 | 1,473 | 873 | 895 | 898 | 582 |
| 1,387 1,247 797 768 534 533 1,146 1,146 691 701 406 920 878 582 508 379 377 40 40 25 29 27 474 441 301 271 205 193 9 5 4 5 1 | Wilkes | 1,918 | 1,718 | 1,239 | 1,070 | 812 | 743 | 113 | 127 | 92 | 99 | 46 | 19 |
| 920 878 582 508 379 377 40 40 25 29 27 474 441 301 271 205 193 9 5 4 5 1 | Wilson | 1,387 | 1,247 | 797 | 768 | 534 | 533 | 1,146 | 1,146 | 169 | 701 | 406 | 445 |
| 474 441 301 271 205 193 9 5 4 5 1 | Yadkin | 920 | 878 | 582 | 508 | 379 | 377 | 40 | 40 | 25 | 29 | 27 | 16 |
| | Yancey | 474 | 441 | 301 | 271 | 205 | 193 | 6 | S | 4 | 5 | 1 | 0 |

Table 5

Adolescent Death Rates* by Race-Sex and Age
North Carolina 1992 and United States 1991

| | Ages 1 | 0-14 | Ages 1 | 5-19 |
|-----------------|-------------|----------------|-------------|----------------|
| Race-Sex | <u>N.C.</u> | <u>U.S.</u> ** | <u>N.C.</u> | <u>U.S.</u> ** |
| **** | | | | |
| White Male | 29.4 | 30.6 | 100.8 | 112.2 |
| White Female | 19.6 | 17.5 | 49.6 | 46.9 |
| Minority Male | 56.5 | 42.3 | 173.7 | 194.6 |
| Minority Female | 27.0 | 21.3 | 50.8 | 48.8 |

*Deaths per 100,000 population.

^{**}Source is Reference 11. Provisional U.S. data for 1992 are available for ages 5-14 and 15-24 but not 10-14 and 15-19.

Table 6

Adolescent Deaths and Death Rates for Leading Causes by Age and Race-Sex
North Carolina 1990-92

| Age and Underlying Cause of Death | | Total | | e Males er <u>Rate</u> 1 | White F | | Mino Ma <u>Numbe</u> | ıles | Mino Fem <u>Number</u> | ales |
|-------------------------------------|-------|-------|------|-----------------------------|---------|------|----------------------------|-------|------------------------------|------|
| AGES 10-14 | | | | | | | | | | |
| All Causes | 386 | 29.4 | 146 | 31.3 | 87 | 19.7 | 102 | 50.5 | 51 | 25.2 |
| Unintentional Injury ^{2,3} | 173 | 13.2 | 68 | 14.6 | 37 | 8.4 | 52 | 25.5 | 16 | 7.9 |
| Motor Vehicle ² | 100 | 7.6 | 35 | 7.5 | 33 | 7.5 | 22 | 10.8 | 10 | 4.9 |
| Other ³ 73 | 5.6 | 33 | 7.1 | 4 | 0.9 | 30 | 14.7 | 6 | 3.0 | |
| Homicide ⁴ | 29 | 2.2 | 4 | 0.9 | 5 | 1.1 | 12 | 5.9 | 8 | 4.0 |
| Suicide ⁵ | 23 | 1.7 | 14 | 3.0 | 4 | 0.9 | 5 | 2.4 | 0 | 0.0 |
| Cancer ⁶ 44 | 3.3 | 23 | 4.9 | 8 | 1.8 | 8 | 3.9 | 5 | 2.5 | |
| Heart Disease ⁷ | 13 | 1.0 | 5 | 1.1 | 3 | 0.7 | 2 | 1.0 | 3 | 1.5 |
| AGES 15-19 | | | | | | | | | | |
| All Causes | 1,280 | 87.4 | 589 | 110.6 | 231 | 46.4 | 350 | 161.4 | 110 | 50.6 |
| Unintentional Injury ^{2,3} | 660 | 45.1 | 342 | 64.2 | 154 | 30.9 | 132 | 60.9 | 32 | 14.7 |
| Motor Vehicle ² | 516 | 35.2 | 274 | 51.5 | 135 | 27.1 | 82 | 37.8 | 25 | 11.5 |
| Other ³ 144 | 9.8 | 68 | 12.8 | 19 | 3.8 | 50 | 23.1 | 7 | 3.2 | |
| Homicide⁴ | 220 | 15.0 | 29 | 5.4 | 17 | 3.4 | 149 | 68.7 | 25 | 11.5 |
| Suicide ⁵ | 150 | 10.2 | 110 | 20.7 | 12 | 2.4 | 25 | 11.5 | 3 | 1.4 |
| Cancer ⁶ 50 | 3.4 | 22 | 4.1 | 9 | 1.8 | 10 | 4.6 | 9 | 4.1 | |
| Heart Disease ⁷ | 30 | 2.0 | 15 | 2.8 | 1 | 0.2 | 11 | 5.1 | 3 | 1.4 |

¹Deaths per 100,000 population.

²ICD-9 Codes 810-825.

³ICD-9 Codes 800-807, 826-949.

⁴ICD-9 Codes 960-978.

⁵ICD-9 Codes 950-959.

⁶ICD-9 Codes 140-208.

⁷ICD-9 Codes 390-398, 402, 404-429.

Table 7

Arrests and Arrest Rates with Percent Changes Since 1978 by Age
North Carolina 1992

| | Arre | ests | Percent C | hanges |
|------------------|---------|-------|-----------|--------|
| Ages 10 and over | Number | Rate* | Number | Rate |
| | | | | |
| TOTAL | 486,644 | 82.8 | 43.4 | 19.0 |
| 10-17 | 41,730 | 59.5 | 32.2 | 52.8 |
| 18-19 | 37,889 | 176.4 | 21.7 | 34.9 |
| 20-24 | 103,668 | 181.3 | 29.2 | 26.8 |
| 25-29 | 90,697 | 163.3 | 62.2 | 39.0 |
| 30-34 | 79,592 | 138.1 | 103.3 | 52.5 |
| 35-39 | 56,707 | 103.2 | 102.0 | 30.3 |
| 40-44 | 34,171 | 67.8 | 56.1 | -3.5 |
| 45-49 | 18,489 | 42.7 | 4.7 | -28.2 |
| 50-54 | 9,993 | 29.3 | -30.9 | -39.8 |
| 55-59 | 6,003 | 20.0 | -38.4 | -41.4 |
| 60-64 | 3,662 | 12.6 | -33.8 | -44.0 |
| 65+ | 4,043 | 4.8 | 0.9 | -31.7 |

^{*}Arrests per 1,000 population.

Source of Arrest Counts: State Bureau of Investigation.

Table 8

Adolescent Arrest Rates* by Type of Offense, Age-Sex, and Age-Race
North Carolina 1992

| | Age | s 10-17 | Ages | 18-19 | Ages | 10-17 |
|------------------------|---------|----------------|----------|----------------|----------|-------------------|
| Offense Category | Males | Females | Males | Females | Whites 1 | Minorities |
| PART 1 | | | | | | |
| Murder | 24.4 | 2.0 | 75.6 | 4.8 | 3.5 | 36.0 |
| Manslaughter by | | | | | | |
| Negligence | 0.8 | 0.3 | 2.7 | 0.0 | 0.4 | 0.9 |
| Forcible Rape | 25.5 | 0.0 | 55.6 | 0.0 | 5.5 | 29.9 |
| Robbery | 137.8 | 3.5 | 429.1 | 14.3 | 12.9 | 206.1 |
| Aggravated Assault | 488.8 | 100.1 | 1,341.1 | 261.7 | 129.2 | 683.0 |
| Burglary, B & E | 992.8 | 76.0 | 1,946.0 | 130.4 | 423.5 | 815.7 |
| Larceny | 1,716.0 | 627.4 | 2,622.9 | 1,044.9 | 774.3 | 2,110.6 |
| Motor Vehicle Theft | 182.0 | 27.1 | 256.9 | 18.1 | 61.4 | 207.6 |
| Arson | 50.1 | 10.2 | 44.6 | 4.8 | 23.4 | 46.7 |
| Subtotal - Part 1 | 3,618.2 | 846.5 | 6,774.6 | 1,478.8 | 1,434.2 | 4,136.5 |
| PART 2 | | | | | | |
| Simple Assault | 940.7 | 270.3 | 2,335.0 | 610.9 | 276.0 | 1,376.7 |
| Forgery/Counterfeiting | 31.6 | 24.2 | 242.3 | 153.2 | 23.2 | 38.8 |
| Fraud | 77.8 | 66.9 | 752.5 | 855.5 | 60.2 | 100.5 |
| Embezzlement | 14.8 | 13.4 | 69.2 | 80.9 | 12.1 | 18.7 |
| Stolen Property | 264.3 | 25.3 | 630.4 | 71.4 | 62.6 | 339.4 |
| Vandalism | 608.7 | 71.6 | 768.0 | 154.2 | 283.6 | 485.7 |
| Weapons | 282.2 | 27.4 | 822.7 | 33.3 | 73.3 | 348.3 |
| Prostitution | 5.9 | 5.2 | 21.9 | 20.0 | 4.1 | 8.9 |
| Sex Offenses | 62.2 | 4.1 | 119.3 | 4.8 | 24.2 | 55.2 |
| Drug Sales | 164.1 | 11.6 | 683.3 | 78.0 | 20.3 | 246.4 |
| Drug Possession | 365.4 | 35.5 | 1,749.2 | 198.0 | 107.2 | 423.0 |
| Gambling | 2.5 | 0.3 | 10.0 | 5.7 | 0.0 | 4.7 |
| Offenses Against | | | | | | |
| Family | 15.4 | 2.3 | 185.9 | 24.7 | 6.2 | 15.4 |
| DWI | 225.4 | 34.3 | 2,138.2 | 295.9 | 157.1 | 73.9 |
| Liquor Laws | 358.4 | 80.0 | 2,351.4 | 437.7 | 261.1 | 132.8 |
| Disorderly Conduct | 373.5 | 126.6 | 907.4 | 176.0 | 119.5 | 554.9 |
| Vagrancy | 5.0 | 0.9 | 9.1 | 1.9 | 2.7 | 3.7 |
| Curfews-Loitering | 19.3 | 3.8 | 0.0 | 0.0 | 3.5 | 30.4 |
| Runaways | 157.9 | 174.3 | 0.0 | 0.0 | 111.9 | 288.9 |
| All Other Arrests | 1,838.1 | 472.6 | 7,734.8 | 1,604.4 | 766.1 | 2,084.4 |
| Subtotal - Part 2 | 5,813.2 | 1,450.7 | 21,530.9 | 5,246.2 | 2,375.1 | 6,630.4 |
| GRAND TOTAL | 9,431.4 | 2,297.2 | 28,305.5 | 6,285.3 | 3,809.4 | 10,767.0 |

^{*}Arrests per 100,000 population.

Source of Arrest Counts: State Bureau of Investigation. Race-specific counts were not available for ages 18-19.

Table 9

Adolescent Incarceration Rates' and Percent Changes Since 1984
by Type of Crime and Age
North Carolina 1992

| | Ag | es 16-17 | Ag | es 18-19 |
|--------------------------------|-----------|----------------|-------------|----------------|
| Crime Category | 1992 | Percent Change | <u>1992</u> | Percent Change |
| | | | | |
| Total Crimes | 198.9 | 25.3 | 581.3 | 55.5 |
| Misdemeanors | 15.5 | -73.4 | 25.6 | -74.8 |
| Felonies | 174.2 | 78.9 | 552.9 | 105.7 |
| Assaultive | 81.4 | 226.9 | 238.3 | 164.5 |
| Homicide | 22.9 | 332.1 | 58.2 | 280.4 |
| Rape and Simple Assault | 9.2 | 8.2 | 30.7 | 59.9 |
| Robbery | 33.2 | 249.5 | 108.9 | 142.0 |
| Public Order | 26.4 | * * | 98.2 | 1,302.9 |
| Drugs | 25.2 | ** | 95.9 | 1,472.1 |
| Property | 66.5 | 8.3 | 216.4 | 26.0 |
| Burglary, Breaking and Ente | ring 46.4 | -8.7 | 129.9 | 14.8 |
| Larceny and Auto Theft | 17.2 | 1.8 | 75.4 | 81.7 |

^{*}Prison inmates per 100,000 population. Counts are as of December 31, 1992.

Source of Inmate Counts: North Carolina Department of Correction.

^{**}Rate was zero on December 31, 1984.

Table 10

Adolescent Pregnancy Rates, Birth Rates, Abortion Rates, and Abortion Fractions with Percent Changes Since 1978 by Age and Race
North Carolina 1992

| | Pregna | ncy Rate* Percent | Bit | rth Rate* Percent | Abort | ion Rate* Percent | Abortion 1 | Fraction** Percent |
|--------------|-------------|----------------------|-------------|----------------------|-------------|----------------------|-------------|--------------------|
| Age and Race | <u>1992</u> | Change | <u>1992</u> | <u>Change</u> | <u>1992</u> | Change | <u>1992</u> | <u>Change</u> |
| 10-14 | | | | | | | | |
| Total | 3.3 | -2 .9 | 1.7 | +6.3 | 1.6 | -11.1 | 465.2 | -10.7 |
| White | 1.5 | -11.8 | 0.6 | 0.0 | 0.9 | -10.0 | 626.1 | +0.2 |
| Minority | 7.3 | 0.0 | 4.3 | +13.2 | 2.8 | -17.6 | 391.3 | -15.7 |
| 15-17 | | | | | | | | |
| Total | 67.4 | +1.8 | 44.6 | +4.9 | 22.3 | - 3.9 | 326,7 | -6.7 |
| White | 48.4 | -5.8 | 30.2 | +1.7 | 18.0 | -15.9 | 371.2 | -10.7 |
| Minority | 107.8 | +8.3 | 76.1 | +5.3 | 30.5 | +16.9 | 282.8 | +7.7 |
| 18-19 | | | | | | | | |
| Total | 136.2 | +2.4 | 94.2 | +4.2 | 41.0 | -1.0 | 297.8 | -4.3 |
| White | 107.7 | -6.8 | 74.3 | -0.9 | 32.7 | -18.0 | 303.7 | -12.0 |
| Minority | 203.9 | +17.3 | 142.9 | +10.9 | 59.2 | +39.3 | 290.1 | +18.6 |
| Total 10-19 | | | | | | | | |
| Total | 52.8 | +2.3 | 35.7 | +5.0 | 16.7 | -2.9 | 313.4 | -5.9 |
| White | 40.3 | -5.6 | 26.7 | +1.1 | 13.4 | -16.8 | 332,4 | -11.7 |
| Minority | 80.3 | +12.0 | 56.1 | +8.1 | 23.4 | +23.8 | 291.7 | +10.9 |

^{*}Number of events per 1,000 females 15-44. Pregnancies are the sum of live births, fetal deaths, and abortions.

^{**}Number of induced abortions per 1,000 pregnancies.

Table 11
Live Birth, Abortion, and Pregnancy Rates for Females 15-17 by Race
North Carolina and Counties 1988-92

| | | | | a and C | | | | | |
|----------------|--------------|-------------|--------------|---------|-------------|----------------|--------------|---------------|---------------|
| | | Birth Rate* | 241 | | bortion Rat | | | egnancy Ra | |
| RESIDENCE | Total | White | Minority | Total | White | Minority | Total | White | Minority |
| North Carolina | 44.3 | 30.1 | 75.7 | 26.9 | 22.7 | 34.6 | 71.7 | 53.1 | 111.4 |
| COUNTY | | | | | | | | | |
| Alamance | 39.7 | 27.9 | 73.6 | 37.4 | 31.5 | 49.1 | 7 7.9 | 59.7 | 125.0 |
| Alexander | 27.2 | 27.2 | 26.9 | 9.4 | 8.7 | 17.9 | 36.6 | 35.9 | 44.8 |
| Alleghany | 16.4 | 17.0 | 0.0 | 19.9 | 20.6 | 0.0 | 36.3 | 37.6 | 0.0 |
| Anson | 58.4 | 29.4 | 77.4 | 24.3 | 22.7 | 24.3 | 83.1 | 52.1 | 102.3 |
| Ashe | 29.1 | 28.4 | 105.3 | 15.9 | 14.2 | 157.9 | 45.0 | 42.6 | 263.2 |
| Avery | 39.5 | 40.1 | 0.0 | 16.4 | 15.9 | 50.0 | 57.9 | 58.1 | 50.0 |
| Beaufort | 53.4 | 27.4 | 89.4 | 22.4 | 17.2 | 28.4 | 76.2 | 44.6 | 118.8 |
| Bertie | 47.5 | 24.0 | 56.6 | 15.4 | 10.5 | 17.3 | 63.4 | 35.9 | 7 3.9 |
| Bladen | 44.7 | 26.5 | 63.0 | 17.2 | 17.1 | 17.2 | 63.3 | 43.6 | 83.2 |
| Brunswick | 50.7 | 44.4 | 66.3 | 22.2 | 22.7 | 20.7 | 73.6 | 68.2 | 87.0 |
| Buncombe | 38.1 | 30.7 | 91.2 | 32.8 | 29.0 | 57.8 | 71.5 | 60.2 | 150.5 |
| Burke | 43.2 | 41.1 | 64.7 | 18.6 | 17.0 | 31.7 | 61.9 | 58.3 | 96.4 |
| Cabarrus | 40.2 | 28.9 | 93.1 | 23.5 | 22.9 | 26.3 | 63.8 | 51.8 | 120.0 |
| Caldwell | 54.0 | 49.6 | 107.0 | 19.9 | 18.9 | 26.3 | 74.7 | 69.1 | 136.8 |
| Camden | 38.4 | 40.4 | 32.9 | 20.9 | 21.4 | 19.7 | 59.3 | 61.8 | 52.6 |
| Carteret | 37.9 | 36.1 | 49.2 | 23.7 | 24.1 | 20.6 | 61.7 | 60.5 | 69.8 |
| Caswell | 23.9 | 21.8 | 25.9 | 19.9 | 12.2 | 25.9 | 44.2 | 34.1 | 52.8 |
| Catawba | 42.9 | 34.9 | 95.4 | 24.6 | 21.5 | 43.1 | 68.1 | 56.9 | 140.3 |
| Chatham | 38.2 | 27.6 | 62.1 | 27.7 | 22.0 | 36.9 | 66.5 | 50.0 | 99.9 |
| Cherokee | 46.0 | 47.2 | 20.6 | 13.9 | 13.6 | 20.6 | 59.9 | 60.8 | 41.2 |
| Chowan | 40.7 | 22.3 | 63.0 | 17.2 | 19.6 | 14.2 | 57.9 | 41.9 | 77.2 |
| Clay | 26.7 | 26.8 | 0.0 | 7.6 | 7.7 | 0.0 | 35.6 | 35.8 | 0.0 |
| Cleveland | 66.2 | 44.4 | 123.0 | 21.8 | 20.8 | 24.0 | 88.8 | 65.2 | 149.8 |
| Columbus | 49.7 | 33.3 | 72.7 | 18.3 | 15.4 | 21.2 | 68.4 | 49.2 | 94.2 |
| Craven | 46.0 | 31.3 | 73.5 | 23.6 | 21.9 | 26.0 | 69.7 | 53.2 | 99.8 |
| Cumberland | 47.6 | 33.0 | 66.2 | 30.2 | 24.1 | 37.4 | 78.2 | 57.5 | 104.1 |
| Currituck | 31.3 | 27.4 | 50.5 | 18.3 | 19.2 | 13.8 | 49.6 | 46.7 | 64.2 |
| Dare | 15.4 | 11.6 | 89.9 | 21.5 | 20.3 | 33.7 | 37.4 | 32.4 | 123.6 |
| Davidson | 42.5 | 38.1 | 69.2 | 26.9 | 23.8 | 40.8 | 70.4 | 62.5 | 113.2 |
| Davie | 33.7 | 27.3 | 79.3 | 23.2 | 20.5 | 42.5 | 57.6 | 48.6 | 121.8 |
| Duplin | 48.6 | 39.6 | 60.9 | 28.2 | 20.2 | 38.8 | 77.0 | 60.2 | 99.8 |
| Durham | 46.3 | 14.2 | 79.7 | 47.1 | 28.8 | 64.9 | 93.8 | 43.0 | 145.4 |
| Edgecombe | 64.9 | 34.9 | 80.7 | 31.1 | 34.5 | 28.6 | 96.6 | 69.9 | 110.0 |
| Forsyth | 42.0 | 22.0 | 7 9.6 | 37.2 | 27.8 | 53.8 | 79.5 | 49.9 | 134.2 |
| Franklin | 43.8 | 19.5 | 75.0 | 22.6 | 16.7 | 30.1 | 67.7 | 37.7 | 106.4 |
| Gaston | 56.8 | 49.3 | 91.7 | 22.3 | 21.3 | 25.2 | 79.4 | 70.9 | 117.9 |
| Gates | 26.4 | 14.2 | 36.9 | 15.4 | 11.8 | 18.4 | 41.8 | 26.1 | 55.3 |
| Graham | 49.9 | 48.2 | 67.8 | 8.5 | 7.8 | 16.9 | 58.4 | 56.0 | 84.7 |
| Granville | 40.9 | 21.3 | 62.8 | 33.5 | 32.7 | 33.8 | 74.4 | 54.0 | 96.6 |
| Greene | 41.0 | 18.5 | 58.7 | 22.1 | 15.7 | 26.0 | 63.6 | 35.7 | 84.7 |
| Guilford | 41.7 | 22.4 | 77.0 | 39.3 | 30.9 | 47.8 | 81.5 | 53.4 | 126.1 |
| Halifax | 55.3 | 31.2 | 69.4 | 28.1 | 32.4 | 25.1 | 84.1 | 64.4 | 95.2 |
| Harnett | 51.7 | 33.9 | 89.5 | 26.2 | 22.2 | 34.0 | 78.3 | 56.3 | 124.4 |
| Haywood | 44.4 | 44.7 | 33.9 | 20.5 | 19.2 | 67.8 | 65.1 | 64.1 | 101.7 |
| Henderson | 38.2 | 35.1 | 85.6 | 23.0 | 21.5 | 47.0 | 61.7 | 57.1 | 132.6 |
| Hertford | 55.3 | 25.5 | 68.4 | 23.5 | 23.1 | 23.7 | 79.5 | 48.7 | 93.2 |
| Hoke | 70.1 | 41.1 | 83.4 | 18.1 | 25.9 | 14.0 | 88.2 | 67.0 | 97.4 |
| Hyde | 41.6 | 11.9 | 83.0 | 27.7 | 23.8 | 33.2 | 69.3 | 35.7 | 116.2 |
| Iredell | 47.5 | 34.8 | 93.2 | 22.2 | 18.5 | 34.6 | 70.3 | 54.0 | 128.3 |
| AVY | - | 16 15 D | 41 | C1: | himba fatal | deaths and aho | rtione Nur | nhers underly | ing the rates |

^{*}Number of events per 1,000 females 15-17. Pregnancies are the sum of live births, fetal deaths, and abortions. Numbers underlying the rates are given in Table 12.

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Table 11 (continued) Live Birth, Abortion, and Pregnancy Rates for Females 15-17 by Race North Carolina and Counties 1988-92

| | | Birth Rate* | | A | bortion Rat | e* | Pr | egnancy Ra | ite* |
|--------------|--------------|-------------|----------|-------|-------------|----------|-------|------------|----------|
| RESIDENCE | Total | White | Minority | Total | White | Minority | Total | White | Minority |
| COUNTY | | | • | | | • | | | • |
| Jackson | 36.8 | 30.4 | 69.0 | 23.3 | 21.1 | 34.5 | 60.6 | 52.0 | 103.4 |
| Jonhston | 45.0 | 30.3 | 90.4 | 25.4 | 23.3 | 30.9 | 71.1 | 54.2 | 122.3 |
| Jones | 39.9 | 23.0 | 57.4 | 22.4 | 13.4 | 31.7 | 63,3 | 38.3 | 89.1 |
| Lee | 53.8 | 33.5 | 99.9 | 27.0 | 21.3 | 37.7 | 81.0 | 54.8 | 138.4 |
| Lenoir | 52.9 | 27.7 | 76.8 | 26.2 | 28.3 | 23.0 | 80.0 | 56.6 | 101.0 |
| Lincoln | 49.5 | 43.6 | 92.8 | 20.6 | 19.7 | 27.2 | 70.8 | 63.8 | 121.6 |
| McDowell | 44.6 | 42.2 | 84.1 | 24.4 | 25.1 | 13.3 | 69.0 | 67.3 | 97.3 |
| Macon | 27,3 | 28.1 | 11.4 | 18.0 | 17.8 | 22.7 | 46.4 | 47.0 | 34.1 |
| Madison | 28 .0 | 27.6 | 55.6 | 17.8 | 18.0 | 0.0 | 46.4 | 46.3 | 55.6 |
| Martin | 49.1 | 19.5 | 71.0 | 17.3 | 15.4 | 18.7 | 67.4 | 34.9 | 91.5 |
| Mecklenburg | 44.8 | 19.0 | 86.7 | 34.8 | 27.8 | 45.8 | 80.1 | 46.9 | 133.6 |
| Mitchell | 44.0 | 44.1 | 0.0 | 13.6 | 12.8 | 500.0 | 57.6 | 56.9 | 500.0 |
| Montgomery | 66.7 | 51.4 | 92.9 | 25.9 | 26.6 | 24.6 | 92.9 | 78.7 | 117.5 |
| Moore | 44.5 | 30.0 | 82.1 | 25.3 | 22.6 | 31.7 | 70.6 | 53.2 | 115.2 |
| Nash | 41.1 | 22.6 | 69.7 | 20.4 | 16.8 | 23.9 | 62.1 | 39.8 | 94.5 |
| New Hanover | 43.4 | 22.9 | 95.9 | 31.8 | 27.9 | 41.4 | 75.6 | 50.9 | 138.3 |
| Northampton | 59.3 | 33.9 | 69.7 | 31.5 | 24.2 | 33.8 | 91.7 | 58.2 | 104.8 |
| Onslow | 45.8 | 41.2 | 58.8 | 28.1 | 25.9 | 33.9 | 74.0 | 67.1 | 92.7 |
| Orange | 20.9 | 11,4 | 54.2 | 34.9 | 26.2 | 59.3 | 56.0 | 37.6 | 114.1 |
| Pamlico | 42.9 | 28.6 | 73.7 | 22.4 | 16.3 | 35.4 | 65.2 | 45.0 | 109.1 |
| Pasquotank | 41.7 | 32.1 | 54.4 | 19.9 | 20.9 | 17.9 | 63.2 | 54.1 | 74.6 |
| Pender | 40.2 | 24.0 | 67.9 | 25.4 | 21.8 | 31.6 | 66.0 | 46.4 | 99.5 |
| Perquimans | 44.1 | 18.2 | 81.9 | 2.0 | 3.3 | 0.0 | 46.0 | 21.5 | 81.9 |
| Person | 31.5 | 21.3 | 51.4 | 36.3 | 30.0 | 44.9 | 68.2 | 51.2 | 97.2 |
| Pitt | 48.4 | 19.9 | 78.5 | 19.6 | 18.5 | 19.9 | 68.9 | 38.6 | 100.0 |
| Polk | 34.2 | 34.3 | 33.3 | 23.7 | 21.2 | 40.0 | 58.8 | 56.6 | 73.3 |
| Randolph | 39.0 | 37.1 | 60.5 | 25.0 | 22.2 | 45.3 | 64.4 | 59.8 | 107.0 |
| Richmond | 54.8 | 41.2 | 77.3 | 22.3 | 21.8 | 22.6 | 77.5 | 63.0 | 101.0 |
| Robeson | 59.5 | 37.2 | 67.3 | 18.8 | 22.9 | 17.4 | 78.7 | 60.4 | 85.1 |
| Rockingham | 47.6 | 38.3 | 71.9 | 28.4 | 23.2 | 37.4 | 76.8 | 61.7 | 111.8 |
| Rowan | 46.3 | 34.3 | 88.3 | 23.3 | 19.8 | 35.4 | 70.0 | 54.3 | 124.6 |
| Rutherford | 51.0 | 46.5 | 72.1 | 18.5 | 18.2 | 19.0 | 70.2 | 65.4 | 92.0 |
| Sampson | 47.1 | 38.0 | 58.5 | 21.2 | 16.9 | 25.3 | 68.8 | 54.9 | 85.0 |
| Scotland | 70.3 | 46.9 | 89.0 | 14.3 | 18.2 | 11.3 | 86.2 | 65.1 | 103.1 |
| Stanly | 46.9 | 37.5 | 96.2 | 21.7 | 19.3 | 34.0 | 69.7 | 57.2 | 135.0 |
| Stokes | 25.1 | 24.7 | 31.0 | 19.8 | 19.5 | 20.7 | 45.7 | 44.7 | 55.2 |
| Surry | 37.7 | 35.7 | 75.0 | 17.0 | 16.7 | 21.9 | 54.9 | 52.7 | 96.9 |
| Swain | 87.0 | 56.7 | 136.1 | 24.6 | 26.0 | 22.3 | 112.6 | 84.2 | 158.4 |
| Transylvania | 41.9 | 38.3 | 86.2 | 19.9 | 18.3 | 40.2 | 62.6 | 57.5 | 126.4 |
| Tyrrell | 28.1 | 21.7 | 37.4 | 10.8 | 3.6 | 21.4 | 38.9 | 25,4 | 58.8 |
| Union | 35.2 | 21.0 | 84.6 | 19.0 | 17.9 | 22.2 | 54.9 | 39.2 | 109.1 |
| Vance | 57.2 | 34.0 | 77.4 | 30.5 | 29.3 | 31.1 | 89.0 | 64.3 | 110.1 |
| Wake | 27.4 | 11.7 | 68.7 | 27.7 | 21.1 | 43.5 | 55.5 | 33.1 | 113.3 |
| Warren | 38.4 | 27.5 | 41.9 | 25.6 | 34.3 | 22.1 | 64.0 | 61.8 | 64.0 |
| Washington | 45.4 | 21.3 | 65.1 | 10.2 | 8.5 | 11.6 | 57.6 | 29.9 | 80.2 |
| Watauga | 27.4 | 28.0 | 0.0 | 17.5 | 16.3 | 78.4 | 45.0 | 44.3 | 78.4 |
| Wayne | 44.6 | 24.2 | 72.1 | 21.6 | 19.0 | 24.5 | 66.7 | 43.4 | 97.4 |
| Wilkes | 40.0 | 39.3 | 49.9 | 16.6 | 15.8 | 23.6 | 57.3 | 55.7 | 76.1 |
| Wilson | 47.4 | 19.4 | 77.8 | 32.8 | 23.7 | 41.6 | 81.3 | 43.0 | 121.6 |
| Yadkin | 30,7 | 30.5 | 33.6 | 21.7 | 21.1 | 26.8 | 52.4 | 51.6 | 60.4 |
| Yancey | 33.8 | 34.0 | 27.8 | 12.8 | 12.5 | 27.8 | 46.7 | 46.4 | 55.6 |
| / | _ | 2 | | | | | | | |

^{*}Number of events per 1,000 females 15-17. Pregnancies are the sum of live births, fetal deaths, and abortions. Numbers underlying the rates are given in Table 12.

Table 12
Live Births, Abortions, and Pregnancies for Females 15-17 by Race
North Carolina and Counties 1988-92

| | | | orth Carol | ina anu (| | | | | |
|----------------|--------|-------------|------------|-----------|-----------|----------|--------|------------|----------|
| | | Live Birth | | | Abortions | | | Pregnancie | |
| RESIDENCE | Total | White | Minority | Total | White | Minority | Total | White | Minority |
| North Carolina | 29,154 | 13,636 | 15,518 | 17,683 | 10,313 | 7,095 | 47,186 | 24,084 | 22,827 |
| COMPUMY | | | | | | | | | |
| COUNTY | 200 | 202 | 196 | 266 | 220 | 104 | 7/2 | 42.4 | 216 |
| Alamance | 389 | 203 72 | 186 | 366 | 229 | 124 | 763 | 434 | 316 |
| Allerander | 78 | | 6 | 27 | 23 | 4 | 105 | 95 | 10 |
| Alleghany | 14 | 14 | 0 | 17 | 17 | 0 | 31 | 31 | 0 |
| Anson | 175 | 35 | 140 | 73 | 27 | 44 | 249 | 62 | 185 |
| Ashe | 64 | 62 | 2 | 35 | 31 | 3 | 99 | 93 | 5 |
| Avery | 58 | 58 | 0 | 24 | 23 | 1 | 85 | 84 | 1 |
| Beaufort | 246 | 73 | 173 | 103 | 46 | 55 | 351 | 119 | 230 |
| Bertie | 114 | 16 | 98 | 37 | 7 | 30 | 152 | 24 | 128 |
| Bladen | 151 | 45 | 106 | 58 | 29 | 29 | 214 | 74 | 140 |
| Brunswick | 254 | 158 | 96 | 111 | 81 | 30 | 369 | 243 | 126 |
| Buncombe | 615 | 435 | 180 | 530 | 412 | 114 | 1,155 | 854 | 297 |
| Burke | 339 | 294 | 45 | 146 | 122 | 22 | 486 | 417 | 67 |
| Cabarrus | 391 | 232 | 159 | 229 | 184 | 45 | 621 | 416 | 205 |
| Caldwell | 399 | 338 | 61 | 147 | 129 | 15 | 552 | 471 | 78 |
| Camden | 22 | 17 | 5 | 12 | 9 | 3 | 34 | 26 | 8 |
| Carteret | 176 | 145 | 31 | 110 | 97 | 13 | 287 | 243 | 44 |
| Caswell | 54 | 25 | 29 | 45 | 14 | 29 | 100 | 39 | 59 |
| Catawba | 530 | 375 | 155 | 304 | 231 | 70 | 842 | 611 | 228 |
| Chatham | 128 | 64 | 64 | 93 | 51 | 38 | 223 | 116 | 103 |
| Cherokee | 96 | 94 | 2 | 29 | 27 | 2 | 125 | 121 | 4 |
| Chowan | 57 | 17 | 40 | 24 | 15 | 9 | 81 | 32 | 49 |
| Clay | 21 | 21 | 0 | 6 | 6 | 0 | 28 | 28 | 0 |
| Cleveland | 598 | 29 0 | 308 | 197 | 136 | 60 | 802 | 426 | 375 |
| Columbus | 299 | 117 | 182 | 110 | 54 | 53 | 412 | 173 | 236 |
| Craven | 381 | 169 | 212 | 195 | 118 | 75 | 577 | 287 | 288 |
| Cumberland | 1,309 | 510 | 799 | 831 | 373 | 451 | 2,152 | 888 | 1,257 |
| Currituck | 41 | 30 | 11 | 24 | 21 | 3 | 65 | 51 | 14 |
| Dare | 28 | 20 | 8 | 39 | 35 | 3 | 68 | 56 | 11 |
| Davidson | 558 | 429 | 129 | 353 | 268 | 76 | 924 | 704 | 211 |
| Davie | 96 | 68 | 28 | 66 | 51 | 15 | 164 | 121 | 43 |
| Duplin | 215 | 102 | 113 | 125 | 52 | 72 | 341 | 155 | 185 |
| Durham | 733 | 115 | 618 | 746 | 233 | 503 | 1,486 | 348 | 1,128 |
| Edgecombe | 436 | 81 | 355 | 209 | 80 | 126 | 649 | 162 | 484 |
| Forsyth | 1,059 | 363 | 696 | 940 | 459 | 471 | 2,006 | 822 | 1,174 |
| Franklin | 163 | 41 | 122 | 84 | 35 | 49 | 252 | 79 | 173 |
| Gaston | 1,090 | 781 | 309 | 428 | 338 | 85 | 1,524 | 1,122 | 397 |
| Gates | 24 | 6 | 18 | 14 | 5 | 9 | 38 | 11 | 27 |
| Graham | 35 | 31 | 4 | 6 | 5 | 1 | 41 | 36 | 5 |
| Granville | 164 | 45 | 119 | 134 | 69 | 64 | 298 | 114 | 183 |
| Greene | 65 | 13 | 52 | 35 | 11 | 23 | 101 | 25 | 75 |
| Guilford | 1,328 | 461 | 867 | 1,251 | 637 | 538 | 2,596 | 1,101 | 1,419 |
| Halifax | 356 | 74 | 282 | 181 | 77 | 102 | 542 | 153 | 387 |
| Harnett | 376 | 168 | 208 | 191 | 110 | 79 | 570 | 279 | 289 |
| Haywood | 193 | 189 | 4 | 89 | 81 | 8 | 283 | 271 | 12 |
| Henderson | 229 | 198 | 31 | 138 | 121 | 17 | 370 | 322 | 48 |
| Hertford | 148 | 21 | 127 | 63 | 19 | 44 | 213 | 40 | 173 |
| Hoke | 190 | 35 | 155 | 49 | 22 | 26 | 239 | 57 | 181 |
| Hyde | 24 | 4 | 20 | 16 | 8 | 8 | 40 | 12 | 28 |
| Iredell | 446 | 255 | 191 | 208 | 136 | 71 | 660 | 396 | 263 |
| Hedeli | 770 | 233 | 171 | 200 | 150 | | 300 | 0,0 | 202 |

^{*}Pregnancies are the sum of live births, fetal deaths, and abortions.

Table 12 (continued)
Live Births, Abortions, and Pregnancies for Females 15-17 by Race
North Carolina and Counties 1988-92

| | | Live Births | | | Abortions | | | Pregnancies* | |
|--------------|-------|-------------|----------|-------|-----------|------------|-------|--------------|----------|
| RESIDENCE | Total | White | Minority | Total | White | Minority | Total | White | Minority |
| COUNTY | | | | | | | | | |
| Jackson | 90 | 62 | 28 | 57 | 43 | 14 | 148 | 106 | 42 |
| Johnston | 381 | 194 | 187 | 215 | 149 | 64 | 602 | 347 | 253 |
| Jones | 41 | 12 | 29 | 23 | 7 | 16 | 65 | 20 | 45 |
| Lee | 229 | 99 | 130 | 115 | 63 | 49 | 345 | 162 | 180 |
| Lenoir | 358 | 91 | 267 | 177 | 93 | 80 | 541 | 186 | 351 |
| Lincoln | 257 | 199 | 58 | 107 | 90 | 17 | 367 | 291 | 76 |
| McDowell | 175 | 156 | 19 | 96 | 93 | 3 | 271 | 249 | 22 |
| Macon | 53 | 52 | 1 | 35 | 33 | 2 | 90 | 87 | 3 |
| Madison | 44 | 43 | 1 | 28 | 28 | 0 | 73 | 72 | 1 |
| Martin | 142 | 24 | 118 | 50 | 19 | 31 | 195 | 43 | 152 |
| Mecklenburg | 2,192 | 577 | 1,615 | 1,703 | 841 | 853 | 3,920 | 1,422 | 2,489 |
| Mitchell | 55 | 55 | 0 | 17 | 16 | 1 | 72 | 71 | 1 |
| Montgomery | 170 | 83 | 87 | 66 | 43 | 23 | 237 | 127 | 110 |
| Moore | 232 | 113 | 119 | 132 | 85 | 4 6 | 368 | 200 | 167 |
| Nash | 342 | 114 | 228 | 170 | 85 | 78 | 517 | 201 | 309 |
| New Hanover | 507 | 192 | 315 | 371 | 234 | 136 | 882 | 427 | 454 |
| Northampton | 126 | 21 | 105 | 67 | 15 | 51 | 195 | 36 | 158 |
| Onslow | 493 | 328 | 165 | 303 | 206 | 95 | 797 | 535 | 260 |
| Orange | 147 | 62 | 85 | 245 | 143 | 93 | 393 | 205 | 179 |
| Pamlico | 46 | 21 | 25 | 24 | 12 | 12 | 70 | 33 | 37 |
| Pasquotank | 130 | 57 | 73 | 62 | 37 | 24 | 197 | 96 | 100 |
| Pender | 114 | 43 | 71 | 72 | 39 | 33 | 187 | 83 | 104 |
| Perquimans | 45 | 11 | 34 | 2 | 2 | 0 | 47 | 13 | 34 |
| Person | 99 | 44 | 55 | 114 | 62 | 48 | 214 | 106 | 104 |
| Pitt | 520 | 110 | 410 | 211 | 102 | 104 | 740 | 213 | 522 |
| Polk | 39 | 34 | 5 | 27 | 21 | 6 | 67 | 56 | 11 |
| Randolph | 414 | 362 | 52 | 265 | 217 | 39 | 684 | 583 | 92 |
| Richmond | 290 | 136 | 154 | 118 | 72 | 45 | 410 | 208 | 201 |
| Robeson | 831 | 135 | 696 | 263 | 83 | 180 | 1,100 | 219 | 881 |
| Rockingham | 414 | 241 | 173 | 247 | 146 | 90 | 668 | 388 | 269 |
| Rowan | 488 | 281 | 207 | 245 | 162 | 83 | 737 | 445 | 292 |
| Rutherford | 308 | 232 | 76 | 112 | 91 | 20 | 424 | 326 | 97 |
| Sampson | 260 | 117 | 143 | 117 | 52 | 62 | 380 | 169 | 208 |
| Scotland | 314 | 93 | 221 | 64 | 36 | 28 | 385 | 129 | 256 |
| Stanly | 249 | 167 | 82 | 115 | 86 | 29 | 370 | 255 | 115 |
| Stokes | 99 | 90 | 9 | 78 | 71 | 6 | 180 | 163 | 16 |
| Surry | 242 | 218 | 24 | 109 | 102 | 7 | 353 | 322 | 31 |
| Swain | 92 | 37 | 55 | 26 | 17 | 9 | 119 | 55 | 64 |
| Transylvania | 99 | 84 | 15 | 47 | 40 | 7 | 148 | 126 | 22 |
| Tyrrell | 13 | 6 | 7 | 5 | 1 | 4 | 18 | 7 | 11 |
| Union | 334 | 155 | 179 | 180 | 132 | 47 | 521 | 289 | 231 |
| Vance | 259 | 72 | 187 | 138 | 62 | 75 | 403 | 136 | 266 |
| Wake | 1,033 | 321 | 712 | 1,044 | 578 | 451 | 2,095 | 906 | 1,174 |
| Warren | 69 | 12 | 57 | 46 | 15 | 30 | 115 | 27 | 87 |
| Washington | 71 | 15 | 56 | 16 | 6 | 10 | 90 | 21 | 69 |
| Watauga | 72 | 72 | 0 | 46 | 42 | 4 | 118 | 114 | 4 |
| Wayne | 479 | 149 | 330 | 232 | 117 | 112 | 716 | 267 | 446 |
| Wilkes | 245 | 226 | 19 | 102 | 91 | 9 | 351 | 320 | 29 |
| Wilson | 358 | 76 | 282 | 248 | 93 | 151 | 614 | 169 | 441 |
| | 220 | 70 | 202 | - TU | , , | | ~ . | | |
| Yadkin | 89 | 84 | 5 | 63 | 58 | 4 | 152 | 142 | 9 |

^{*}Pregnancies are the sum of live births, fetal deaths, and abortions.

Table 13

Adolescent Pregnancies, Pregnancy Rates, and Attributable Risks (Ages 10-19)

North Carolina and Counties 1992

| Residence | Number of Pregnancies* | Pregnancy <u>Rate*</u> | Attributable Risk (Percent)** |
|-----------------|---------------------------|---------------------------|-------------------------------|
| North Carolina | 23,711 | 52.8 | |
| COUNTIES | | | |
| Cumberland | 1,219 | 61.5 | 1.96 |
| Mecklenburg | 1,775 | 51.2 | 1.93 |
| Forsyth | 1,002 | 60.0 | 1.55 |
| Guilford | 1,206 | 51.8 | 1.35 |
| Onslow | 619 | 73.9 | 1.27 |
| Gaston | 690 | 59.5 | 1.05 |
| Robeson | 584 | 65.4 | 1.03 |
| Durham | 680 | 56.0 | 0.92 |
| Edgecombe | 321 | 75.5 52.3 | 0.67 |
| Buncombe | 555 | 52.3 | 0.64 0.62 |
| Catawba | 445 | 56.8 63.9 | |
| Cleveland | 357 | | 0.61 |
| New Hanover | 476 | 54.6 65.9 | 0.61 0.60 |
| Harnett | 335 287 | 70.4 | 0.56 |
| Halifax | 463 | 52.9 | 0.55 |
| Pitt | 434 | 52.7 | 0.51 |
| Davidson | 316 | 59.1 | 0.47 |
| Rockingham | 383 | 53.5 | 0.47 |
| Wayne Wilson | 290 | 59.9 | 0.45 |
| Caldwell | 273 | 61.0 | 0.43 |
| Alamance | 350 | 52.5 | 0.41 |
| Craven | 314 | 54.4 | 0.40 |
| Nash | 300 | 54.7 | 0.39 |
| Iredell | 322 | 52.8 | 0.38 |
| Richmond | 211 | 65.9 | 0.38 |
| Johnston | 300 | 54.0 | 0.37 |
| Scotland | 191 | 66.1 | 0.34 |
| Lenoir | 232 | 57.0 | 0.33 |
| Brunswick | 200 | 61.6 | 0.32 |
| Rutherford | 218 | 58.5 | 0.32 |
| Columbus | 214 | 57.6 | 0.31 |
| Lee | 183 | 61.9 | 0.30 |
| Stanly | 197 | 56.7 | 0.27 |

Adolescent Pregnancies, Pregnancy Rates, and Attributable Risks (Ages 10-19)
North Carolina and Counties 1992

Table 13 (continued)

| Residence | Number of <u>Pregnancies*</u> | Pregnancy <u>Rate*</u> | Attributable Risk(Percent)** |
|--------------|-------------------------------|---------------------------|------------------------------|
| Vance | 170 | 60.6 | 0.27 |
| Randolph | 321 | 46.9 | 0.26 |
| Montgomery | 119 | 76.1 | 0.25 |
| Rowan | 333 | 46.2 | 0.25 |
| Macon | 140 | 62.3 | 0.23 |
| Hoke | 122 | 66.5 | 0.22 |
| Burke | 229 | 48.8 | 0.21 |
| Duplin | 157 | 54.8 | 0.20 |
| Sampson | 1 7 9 | 51.1 | 0.19 |
| Beauford | 158 | 52.9 | 0.19 |
| Moore | 181 | 50.3 | 0.19 |
| Granville | 139 | 55.7 | 0.19 |
| Wilkes | 186 | 49.1 | 0.18 |
| Hertford | 106 | 61.3 | 0.17 |
| McDowell | 108 | 59.2 | 0.16 |
| Anson | 104 | 59.9 | 0.16 |
| Henderson | 182 | 47.3 | 0.15 |
| Northampton | 85 | 62.9 | 0.14 |
| Pender | 102 | 55.1 | 0.13 |
| Swain | 55 | 81.1 | 0.12 |
| Haywood | 128 | 49.2 | 0.12 |
| Greeene | 70 | 64.8 | 0.12 |
| Bladen | 108 | 51.9 | 0.12 |
| Chatham | 107 | 49.6 | 0.11 |
| Lincoln | 151 | 44.3 | 0.09 |
| Davie | 89 | 49.8 | 0.09 |
| Surry | 169 | 43.4 | 0.09 |
| Bertie | 79 | 50.5 | 0.08 |
| Franklin | 118 | 45.4 | 0.08 |
| Person | 93 | 47.] | 0.08 |
| Transylvania | 78 | 48.1 | 0.07 |
| Jones | 41 | 62.5 | 0.07 |
| Jackson | 99 | 43.9 | 0.06 |
| Yancey | 46 | 50.3 | 0.05 |
| Alleghany | 31 | 55.9 | 0.04 |
| Warren | 51 | 45.4 | 0.03 |
| Caswell | 58 | 44.1 | 0.03 |
| Polk | 35 | 48.2 | 0.03 |

Table 13 (continued)

Adolescent Pregnancies, Pregnancy Rates, and Attributable Risks (Ages 10-19) North Carolina and Counties 1992

| Residence | Number of Pregnancies* | Pregnancy Rate* | Attributable Risk (Percent)** |
|-------------------|---------------------------|-----------------|---|
| Mitchell | 38 | 46.3 | 0.03 |
| Graham | 23 | 50.9 | 0.02 |
| Hyde | 15 | 44.4 | 0.01 |
| , | | | • |
| NONREFERENT TOTAL | 20,745 | 56.0 | 28.05 |
| REFERENT COUNTIES | | | |
| Carteret | 140 | 43.0 | |
| Union | 273 | 42.9 | |
| Cabarrus | 278 | 42.8 | |
| Chowan | 39 | 41.7 | |
| Pamlico | 30 | 41.7 | |
| Pasquotank | 97 | 41.2 | |
| Cherokee | 54 | 40.3 | |
| Tyrrell | 12 | 40.3 | |
| Wake | 1,169 | 40.1 | |
| Yadkin | 74 | 40.0 | |
| Washington | 42 | 40.0 | |
| Martin | 44 | 38.7 | |
| Ashe | 51 | 38.3 | |
| Madison | 48 | 38.0 | |
| Stokes | 93 | 38.0 | |
| Perquimans | 25 | 36.4 | |
| Alexander | 67 | 36.4 | |
| Avery | 37 | 34.6 | |
| Gates | 20 | 33.2 | |
| Currituck | 30 | 32.6 . | |
| Clay | 12 | 27.8 | |
| Orange | 208 | 27.7 | |
| Watauga | 84 | 25.6 | |
| Dare | 32 | 24.9 | |
| Camden | 7 | 20.2 | |
| REFERENT TOTAL | 2,966 | 38.02 | |

^{*}Pregnancies are the sum of live births, fetal deaths, and abortions. The rate is the number of pregnancies per 1,000 females 10-19.

^{**}The percentage of statewide adolescent pregnancies that would not have occurred if the effect of living in a particular county were absent.

Table 14

Selected Live Birth Statistics for Adolescent Mothers with Percent Changes Since 1978 by Age and Race North Carolina 1992

| | Number of Live Rirths | iber of Live Births | Parcent II | Inmorring | Porcont M | 1 | G | | | Percent Low |
|--------------|--------------------------|------------------------|------------|-----------|-----------|----------------|------|----------------|------|--------------------------|
| Age and Race | 1992 | Pct. Chg. | 1992 | Pct. Chg. | 1992 | 1992 Pct. Chg. | 1992 | 1992 Pct. Chg. | 19 | Birthweight 92 Pct. Chg. |
| 10-14 | | | | | | | | | | |
| Total | 371 | 8.0- | 95.7 | +9.5 | 8.4 | +55.6 | 55.0 | -13.8 | 12.4 | -20 0 |
| White | 82 | -20.4 | 84.1 | +46.8 | 4.9 | +25.6 | 45.1 | -25.8 | 4.9 | -58- |
| Minority | 289 | 9.9+ | 0.66 | +0.1 | 9.3 | +57.6 | 57.8 | -10.8 | 14.5 | -14.7 |
| 15-17 | | | | | | | | | | |
| Total | 5,744 | -14.3 | 82.5 | +39.4 | 24.4 | +53.5 | 41.6 | -21.5 | 12.2 | +43 |
| White | 2,669 | -18.6 | 64.7 | +137.0 | 17.8 | +50.8 | 35.2 | -23.1 | 9.4 | 0 8+ |
| Minority | 3,075 | -10.2 | 0.86 | +9.3 | 30.1 | +54.4 | 47.2 | -21.3 | 14.6 | +0.7 |
| 18-19 | | | | | | | | | | |
| Total | 968'6 | -3.6 | 64.5 | +81.2 | 43.6 | +25.6 | 35.5 | -13.0 | 10.2 | 2,00 |
| White | 5,553 | -8.7 | 43.1 | +231.5 | 37.5 | +26.7 | 28.6 | -16.1 | 8 4 | +1.2 |
| Minority | 4,343 | +3.9 | 91.8 | +34.0 | 51.3 | +22.4 | 44.4 | -11.9 | 12.6 | -9.4 |
| Total 10-19 | | | | | | | | | | |
| Total | 16,011 | -7.6 | 71.7 | +56.6 | 35.9 | +35.0 | 38.2 | -16.8 | 11.0 | 6 0- |
| White | 8,304 | -12.2 | 50.5 | +173.0 | 30.9 | +33.8 | 30.9 | -19.3 | 8.7 | +2.4 |
| Minority | 7,707 | -2.1 | 94.5 | +19.9 | 41.3 | +34.1 | 46.0 | -16.2 | 13.5 | -5.6 |

¹Birth order 2 or more.
²No prenatal care or care after first trimester.
³Under 2500 grams.

Note: Data for 1978 were taken from reference 2.

Table 15
Numbers and Percentages of Mothers Aged 10-19 Having
Late or No Prenatal Care* by Race
North Carolina and Counties 1988-92

| | , | Total | Whi | ites | Mino | rities |
|----------------------|--------|---------|-------------|---------|-------------|---------|
| RESIDENCE | Number | Percent | Number | Percent | Number | Percent |
| North Carolina | 36,230 | 44.5 | 15,686 | 37.1 | 20,544 | 52.3 |
| | - , | | ŕ | | ŕ | |
| COUNTY | | | *** | | | |
| Alamance | 556 | 48.2 | 285 | 42.7 | 271 | 55.8 |
| Alexander | 143 | 54.4 | 125 | 54.1 | 18 | 56.3 |
| Alleghany | 18 | 30.5 | 18 | 30.5 | 0 | 0.0 |
| Anson | 238 | 53.6 | 34 | 34.3 | 204 | 59.1 |
| Ashe | 54 | 25.5 | 53 | 25.4 | 1 | 33.3 |
| Avery | . 87 | 49.2 | 87 | 49.2 | 0 | 0.0 |
| Beaufort | 263 | 43.8 | 78 | 35.1 | 185 | 48.9 |
| Bertie | 87 | 30.2 | 4 | 12.9 | 83 | 32.3 |
| Bladen | 225 | 53.1 | 58 | 39.5 | 167 | 60.3 |
| Brunswick | 329 | 46.6 | 208 | 44.8 | 121 | 50.0 |
| Buncombe | 420 | 23.6 | 2 69 | 19.9 | 151 | 35.4 |
| Burke | 334 | 34.5 | 275 | 32.4 | 59 | 49.2 |
| Cabarrus | 628 | 55.1 | 356 | 48.4 | 272 | 67.3 |
| Caldwell | 457 | 42.1 | 396 | 40.8 | 61 | 52.6 |
| Camden | 26 | 49.1 | 16 | 42.1 | 10 | 66.7 |
| Carteret | 205 | 40.2 | 158 | 36.9 | 47 | 57.3 |
| Caswell | 76 | 47.2 | 22 | 31.0 | 54 | 60.0 |
| Catawba | 677 | 43.4 | 438 | 37.9 | 239 | 58.9 |
| Chatham | 157 | 44.7 | 68 | 34.7 | 89 | 57.4 |
| Cherokee | 63 | 27.2 | 58 | 26.0 | 5 | 55.6 |
| Chowan | 55 | 36.7 | 19 | 35.8 | 36 | 37.1 |
| Clay | 10 | 15.2 | 10 | 15.2 | 0 | 0.0 |
| Cleveland | 880 | 59.3 | 394 | 49.4 | 486 | 70.7 |
| Columbus | 281 | 35.8 | 99 | 29.7 | 182 | 40.3 |
| | 574 | 48.9 | 278 | 44.7 | 296 | 53.5 |
| Craven Cumberland | 1,503 | 35.0 | 560 | 27.5 | | |
| Currituck | 1,303 | 46.3 | | | 943 | 41.8 |
| | 37 | 35.2 | 35 | 41.2 | 15 | 65.2 |
| Dare | | | 29 | 34.9 | 8 | 36.4 |
| Davidson | 726 | 46.2 | 529 | 42.9 | 197 | 58.5 |
| Davie | 105 | 36.6 | 81 | 34.5 | 24 | 46.2 |
| Duplin | 280 | 46.9 | 105 | 36.1 | 175 | 57.2 |
| Durham | 817 | 43.3 | 139 | 36.2 | 678 | 45.2 |
| Edgecombe | 564 | 52.8 | 84 | 37.5 | 480 | 56.8 |
| Forsyth | 1,132 | 39.4 | 382 | 33.8 | 75 0 | 43.0 |
| Franklin | 197 | 47.7 | 59 | 46.5 | 138 | 48.3 |
| Gaston | 1,294 | 44.1 | 844 | 39.0 | 450 | 58.4 |
| Gates | 22 | 32.8 | 6 | 42.9 | 16 | 30.2 |
| Graham | 27 | 29.7 | 21 | 27.3 | 6 | 42.9 |
| Granville | 194 | 43.2 | 55 | 36.2 | 139 | 46.8 |
| Greene | 69 | 37.5 | 12 | 24.5 | 57 | 42.2 |
| Guilford | 1,782 | 49.5 | 595 | 42.7 | 1,187 | 53.9 |
| Halifax | 407 | 41.8 | 71 | 31.1 | 336 | 45.0 |
| Harnett | 538 | 44.8 | 214 | 33.4 | 324 | 57.9 |
| Haywood | 196 | 41.2 | 193 | 41.4 | 3 | 30.0 |
| Henderson | 167 | 25.7 | 141 | 24.5 | 26 | 35.6 |
| Hertford | 127 | 32.2 | 16 | 26.2 | 111 | 33.3 |
| Hoke | 166 | 34.2 | 31 | 25.6 | 135 | 37.0 |
| Hyde | 35 | 51.5 | 8 | 38.1 | 27 | 57.4 |
| Iredell | 762 | 61.8 | 403 | 53.4 | 359 | 74.9 |
| | | | | | | |

^{*}No care or care after the first trimester.

Table 15 (continued) Numbers and Percentages of Mothers Aged 10-19 Having Late or No Prenatal Care* by Race North Carolina and Counties 1988-92

| | • | Fotal | Wh | ites | Min | orities |
|------------------|------------|--------------|----------|--------------|----------|---------|
| RESIDENCE | Number | Percent | Number | Percent | Number | Percent |
| COUNTY | | | | | | |
| Jackson | 78 | 28.9 | 53 | 27.9 | 25 | 31.3 |
| Johnston | 619 | 60.0 | 314 | 54.6 | 305 | 66.7 |
| Jones | . 63 | 55.8 | 21 | 47.7 | 42 | 60.9 |
| Lee | 266 | 41.6 | 111 | 33.8 | 155 | 49.8 |
| Lenoir | 581 | 68.0 | 124 | 51.0 | 457 | 74.8 |
| Lincoln | 384 | 55.9 | 282 | 51.6 | 102 | 72.9 |
| McDowell | 188 | 36.5 | 159 | 34.1 | 29 | 59.2 |
| Macon | 49 | 28.2 | 47 | 27.6 | 2 | 50.0 |
| Madison | 29 | 19.5 | 28 | 18.9 | 1 | 100.0 |
| Martin | 130 | 33.4 | 20 | 22.7 | 110 | 36.5 |
| Mecklenburg | 2,430 | 42.8 | 605 | 34.0 | 1,825 | 46.8 |
| Mitchell | 39 | 23.8 | 39 | 24.2 | 0 | 0.0 |
| Montgomery | 183 | 42.6 | 89 | 37.6 | 94 | 48.7 |
| Moore | 290 | 45.3 | 139 | 40.2 | 151 | 51.4 |
| Nash | 547 | 59.3 | 179 | 52.5 | 368 | 63.3 |
| New Hanover | 663 | 51.1 | 250 | 42.4 | 413 | 58.3 |
| Northampton | 125 | 38.3 | 12 | 24.5 | 113 | 40.8 |
| Onslow | 677 | 29.2 | 468 | 26.7 | 209 | 36.9 |
| Orange | 162 | 39.9 | 56 | 27.7 | 106 | 52.0 |
| Pamlico · | 52 | 46.4 | 13 | 25.0 | 39 | 65.0 |
| Pasquotank | 179 | 46.3 | 61 | 36.3 | 118 | 53.9 |
| Pender | 182 | 54.2 | 81 | 50.3 | 101 | 57.7 |
| Perquimans | 59 | 50.0 | 12 | 38.7 | 47 | 54.0 |
| Person | 134 | 39.5 | 47 | 30.7 | 87 | 46.8 |
| Pitt | 564 | 41.8 | 108 | 29.7 | 456 | 46.3 |
| Polk | 4 6 | 41.4 | 35 | 38.0 | 11 | 57.9 |
| Randolph | 517 | 44.3 | 428 | 42.0 | 89 | 59.7 |
| Richmond | 385 | 49.1 | 156 | 40.7 | 229 | 57.1 |
| Robeson | 1,229 | 53.5 | 178 | 44.4 | 1,051 | 55.4 |
| Rockingham | 502 | 45.6 | 242 | 35.0 | 260 | 63.3 |
| Rowan | 776 | 59.6 | 448 | 54.4 | 328 | 68.6 |
| Rutherford | 237 | 27.1 | 151 | 23.1 | 86 | 39.4 |
| Sampson | 376 | 55.8 | 153 | 47.8 | 223 | 63.0 |
| Scotland | 478 | 60.4 | 128 | 49.2 | 350 | 65.9 |
| Stanly | 310 | 45.9 | 211 | 42.5 | 99 | |
| Stokes | 86 | 28.1 | 66 | 24.4 | | 55.3 |
| Surry | 179 | 25.6 | 155 | 24.4 | 20 | 57.1 |
| Swain | 79 | 34.2 | 28 | 27.7 | 24 | 38.1 |
| Transylvania | 101 | 41.2 | 80 | | 51 | 39.2 |
| Tyrrell | 101 | 25.6 | 1 | 38.3 7.1 | 21 | 58.3 |
| Union | 441 | 45.2 | 162 | 32.7 | 9 270 | 36.0 |
| Vance | 388 | 53.8 | 85 | 39.0 | 279 | 58.2 |
| Wake | 1,476 | 50.8 | 464 | | 303 | 60.2 |
| Warren | 73 | 33.3 | 10 | 42.8 27.8 | 1,012 | 55.6 |
| Washington | 78 78 | 36.3 | 16 | | 63 | 34.4 |
| Washington | 72 | 35.3 | 72 | 29.6 36.0 | 62 0 | 38.5 |
| Wayne | 978 | 71.0 | 315 | | | 0.0 |
| • | | | | 58.6 | 663 | 78.9 |
| Wilkes Wilson | 162 | 22.6 | 149 | 22.9 | 13 | 20.3 |
| | 397 | 41.9 | 85 | 32.7 | 312 | 45.3 |
| Yadkin | 103 | 40.9 | 93 | 40.1 | 10 | 50.0 |
| Yancey | 38 | 21.7 | 38 55 | 21.8 | 0 | 0.0 |

Table 16

Percentage of Adolescent Mothers Who Smoked by Age and Race
North Carolina 1992

| Age | <u>Total</u> | White | Minority |
|-------------|--------------|-------|-----------------|
| 10-14 | 7.0 | 19.5 | 3.5 |
| 15-17 | 16.4 | 28.5 | 5.9 |
| 18-19 | 21.0 | 29.8 | 9.8 |
| Total 10-19 | 19.0 | 29.3 | 8.0 |

Table 17

Percentages of Live Births by Type of Service, Race, and Adolescent Age
North Carolina 1988-1992

| Type of Service | , Race, and Age | <u>1988</u> | <u>1989</u> | Year of Birth 1990 | <u>1991</u> | <u>1992</u> |
|-------------------------------------|-----------------|-------------|-------------|-----------------------|-------------|-------------|
| Newborn Hospit Paid by Medicai | | | | | | |
| Whites | 10-17 | 42.6 | 56.6 | 71.1 | 80.1 | 85.6 |
| | 18-19 | 34.1 | 46.8 | 57.2 | 70.2 | 73.6 |
| Minorities | 10-17 | 62.1 | 72.4 | 83.2 | 88.7 | 90.3 |
| | 18-19 | 64.8 | 73.1 | 80.3 | 86.0 | 87.8 |
| Mother Received | d Prenatal WIC* | | | | | |
| Whites | 10-17 | 55.0 | 62.0 | 65.0 | 69.7 | 73.3 |
| | 18-19 | 43.9 | 49.6 | 53.8 | 61.8 | 64.6 |
| Minorities | 10-17 | 70.6 | 73.9 | 76.1 | 78.4 | 79.8 |
| | 18-19 | 63.7 | 68.6 | 71.0 | 73.5 | 75.5 |
| Mother Received Care in Health D | | | | | | |
| Whites | 10-17 | 42.9 | 47.7 | 47.9 | 51.7 | 44.0 |
| | 18-19 | 34.5 | 37.1 | 39.9 | 44.5 | 39.4 |
| Minorities | 10-17 | 51.1 | 52.8 | 56.4 | 58.3 | 51.9 |
| | 18-19 | 48.0 | 48.9 | 51.1 | 52.7 | 48.0 |

^{*}Women, Infants, and Children supplemental food program; see Glossary.

Table 18 Percentages of Medicaid Births by Type of Service, Race, and Adolescent Age North Carolina 1988-1992

| Type of Service | , Race, and Age | 1988 | <u>1989</u> | Year of Birth 1990 | <u>1991</u> | <u>1992</u> |
|--------------------------------------|-----------------|------|-------------|-----------------------|-------------|-------------|
| Mother Receive | d Prenatal WIC* | | | | | |
| Whites | 10-17 | 70.2 | 75.1 | 74.5 | 76.4 | 77.8 |
| | 18-19 | 69.6 | 74.1 | 73.2 | 73.6 | 75.1 |
| Minorities | 10-17 | 76.4 | 79.5 | 79.0 | 80.5 | 81.5 |
| | 18-19 | 73.3 | 76.6 | 76.1 | 77.5 | 78.6 |
| Mother Received Care Coordination | | | | | | |
| Whites | 10-17 | 22.6 | 37.6 | 40.8 | 45.2 | 51.5 |
| | 18-19 | 23.1 | 36.2 | 39.5 | 43.6 | 46.4 |
| Minorities | 10-17 | 28.7 | 41.1 | 51.7 | 56.3 | 60.6 |
| | 18-19 | 23.9 | 39.7 | 47.4 | 50.7 | 54.2 |

^{*}Women, Infants, and Children supplemental food program; see Glossary.

**Case management; see Glossary.

Table 19 Fetal, Neonatal, Postneonatal, and Infant Deaths and Death Rates Among Adolescent Mothers by Age and Race North Carolina Birth Year 1991

| Maternal Age | To | tal | Wh | ites | Mino | rities |
|---------------------------|--------|------|--------|------|---------------|--------|
| and Type of Death | Number | Rate | Number | Rate | <u>Number</u> | Rate |
| 15-17 | | | | | | |
| Fetal ¹ | 58 | 9.6 | 19 | 6.6 | 39 | 12.2 |
| Neonatal ² | 54 | 9.0 | 15 | 5.3 | 39 | 12.4 |
| Postneonatal ³ | 27 | 4.5 | 17 | 6.0 | 10 | 3.2 |
| Infant⁴ | 81 | 13.5 | 32 | 11.3 | 49 | 15.6 |
| 18-19 | | | | | | |
| Fetal ¹ | 102 | 10.0 | 49 | 8.7 | 53 | 11.5 |
| Neonatal ² | 91 | 9.0 | 42 | 7.5 | 49 | 10.8 |
| Postneonatal ³ | 38 | 3.8 | 18 | 3.3 | 20 | 4.4 |
| Infant⁴ | 129 | 12.8 | 60 | 10.8 | 69 | 15.2 |
| TOTAL 10-19 | | | | | | |
| Fetal ¹ | 164 | 9.8 | 69 | 8.1 | 95 | 11.7 |
| Neonatal ² | 150 | 9.1 | 57 | 6.7 | 93 | 11.6 |
| Postneonatal ³ | 65 | 4.0 | 35 | 4.1 | 30 | 3.8 |
| Infant ⁴ | 215 | 13.0 | 92 | 10.8 | 123 | 15.3 |

¹Stillbirths of at least 20 weeks gestation. Rate is per 1,000 deliveries (live births plus fetal deaths). ²Death of a liveborn child under 28 days of age. Rate is per 1,000 live births. ³Death of an infant 28 days to one year of age. Rate is per 1,000 neonatal survivors.

Death of a liveborn child under one year of age. Rate is per 1,000 live births.

Table 20 Infant Deaths and Death Rates Among Adolescent Mothers by Underlying Cause and Race North Carolina Birth Year 1991

| Underlying | Total | | Wh | ites | Mino | orities |
|---|---------------|-------|---------------|-------|---------------|---------|
| Cause of Death | <u>Number</u> | Rate1 | <u>Number</u> | Rate1 | <u>Number</u> | Rate1 |
| Total Infant Deaths | 215 | 13.0 | 92 | 10.8 | 123 | 15.3 |
| $SIDS^2$ | 35 | 2.1 | 20 | 2.4 | 15 | 1.9 |
| Low Birthweight/ | | | | | | |
| Respiratory Distress ³ | 52 | 3.1 | 21 | 2.5 | 31 | 3.9 |
| Other Respiratory Problems ⁴ | 13 | 0.8 | 2 | 0.2 | 11 | 1 4 |
| Birth Defects ⁵ | 31 | 1.9 | 15 | 1.8 | 16 | 2 0 |
| Injuries ⁶ | 11 | 0.7 | 2 | 0.2 | 9 | 1.1 |

¹Number of infant deaths per 1,000 live births. ²ICD-9 Code 798.0. ³ICD-9 Codes 764, 765, 769-770.7.

⁴ICD-9 Code 770.8.

⁵ICD-9 Codes 740-759.

⁶ICD-9 Codes 800-999.

Table 21

Adolescent Cases and Rates for Sexually Transmitted Diseases by Age and Race-Sex North Carolina 1992

| | E | 3 | White | Molos | White | Pomoloc | Minority Males | rity | Min | Minority Females |
|---|--------|---------|-------------|-------------------|-------------|---------|-------------------|---------|--------|---------------------|
| Age and Disease | Number | Rate! | Number Rate | Rate ¹ | Number Rate | Rate! | Number | Rate! | Number | Rate! |
| AGES 10-14 | 16 | 102 | c | C | ٧ | 1 | ~ | 0 \$ | 7 % | 3 63 |
| Sypnins- | 45 | 10.5 | o - | 0.0 | 7.9 | 45.7 | 00 | 147.2 | 384 | 576.6 |
| Chlamydia | 382 | 87.1 | 0 | 0.0 | 66 | 8.99 | 17 | 25.3 | 266 | 399.4 |
| AGES 15-19 | 100 | 130 1 | 17 | o C | - | 0.27 | 191 | 7317 | 300 | 563.4 |
| Sypullis ² Gonorrhea ³ | 7.994 | 1,674.8 | 172 | 93.6 | 663 | 406.4 | 3,559 | 5,110.0 | 3,600 | 5,083.2 |
| Chlamydia | 5,777 | 1,210.3 | 95 | 54.7 | 1,808 | 1,108.2 | 376 | 539.9 | 3,498 | 4,939.1 |

¹Reported cases per 100,000 population.
²All stages.
³All sites.

Number and Percentage of Adolescents Classified as
Overweight by Race
North Carolina Child Health Program 1988-91

| | T | otal | \mathbf{W} | hites | В | lacks |
|---------------|---------------|-------------------|--------------|-------------------|---------------|-------------------|
| Sex and Age | <u>Number</u> | Percentage | Number | Percentage | <u>Number</u> | Percentage |
| Males | | | | | | |
| 10-11 | 612 | 31.1 | 338 | 35.0 | 256 | 27.9 |
| 12-14 | 801 | 28.8 | 440 | 32.7 | 341 | 25.4 |
| 15-17 | 489 | 30.3 | 254 | 35.3 | 228 | 27.0 |
| 18 | 36 | 19.4 | 16 | 20.5 | 19 | 19.0 |
| Females | | | | | | |
| 10-11 | 667 | 32.4 | 310 | 31.2 | 331 | 33.3 |
| 12-14 | 874 | 30-3 | 414 | 29.7 | 448 | 31.5 |
| 15-17 | 487 | 29.3 | 263 | 31.9 | 217 | 27.6 |
| 18 | 48 | 24.0 | 21 | 21.6 | 26 | 27.4 |
| Males 12-18 | 1,326 | 28.9 | 710 | 33.1 | 588 | 25.7 |
| Females 12-18 | 1,409 | 29.7 | 698 | 30.2 | 691 | 30.0 |
| Total 12-18 | 2,735 | 29.3 | 1,408 | 31.6 | 1,279 | 27.9 |

Note: Based on Body Mass Index (BMI), overweight is defined by the age-sex-specific 85th percentile values for the combined samples of U.S. children examined in the first two National Health and Nutrition Examination Surveys (NHANES I and NHANES II, 1971-1980). ²⁶ BMI is calculated by dividing weight in kilograms by the square of height in meters. Here, BMI is based on the age, height, and weight of an individual at last visit (during the 4-year period) for which height and weight were recorded. Counts were insufficient to examine the data for American Indians and Hispanics.

Table 23

Hospital Discharges and Rates for Adolescent Age-Sex Groups by Primary Diagnosis North Carolina 1991

| | Ages 10-19 | 0-19 | | | Ages 10-14 | | | Ages | Ages 15-19 | |
|-----------------------------------|--------------------------|---------|--------|-------|------------|---------|--------|-------|------------|---------|
| | Males and Females | Females | Ž | Males | Fem | Females | Ž | Males | | Females |
| Primary Diagnosis | Number | Rate! | Number | Rate! | Number | Rate! | Number | Rate! | Number | Rate! |
| Total Discharges | 45,102 | 483.3 | 5,267 | 234.3 | 4,893 | 226.9 | 7,794 | 308.8 | 27,148 | 1,129.4 |
| Diseases of Heart ² | 210 | 2.3 | 44 | 2.0 | 28 | 1.3 | 87 | 3,4 | 51 | 2.1 |
| Cancer ³ | 254 | 2.7 | 74 | 3.3 | 46 | 2.1 | 73 | 2.9 | 19 | 2.5 |
| Diabetes Mellitus ⁴ | 801 | 9.8 | 126 | 5.6 | 199 | 9.2 | 209 | 8.3 | 267 | 1 |
| Chronic Obstructive | | | | | | | | | | |
| Pulmonary Diseases ⁵ | 842 | 0.6 | 286 | 12.7 | 226 | 10.5 | 138 | 5.5 | 192 | 8.0 |
| Diseases of Genitourinary | ary | | | | | | | | | |
| System ⁶ | 2,022 | 21.7 | 174 | 7.7 | 283 | 13.1 | 246 | 6.7 | 1,319 | 54.9 |
| Normal Delivery and | | | | | | | | | | - |
| Complications of | | | | | | | | | | |
| Pregnancy, Childbirth, | h, | | | | | | | | | |
| and Puerperium7 | 19,438 | 208.3 | • | • | 527 | 24.4 | • | • | 118,911 | 786.8 |
| Mental Disorders ⁸ | 4,639 | 49.7 | 824 | 36.7 | 806 | 37.4 | 1,503 | 59.5 | 1,506 | 62.7 |
| Injury and Poisoning ⁹ | 4,677 | 50.1 | 196 | 42.7 | 474 | 22.0 | 2,137 | 84.7 | 1,105 | 46.0 |

¹Discharges per 10,000 population.
²ICD-9 Codes 390-398, 402, 404-429.
³ICD-9 Codes 140-208.
⁴ICD-9 Code 250.
³ICD-9 Codes 490-496.
⁸ICD-9 Codes 580-629.

7ICD-9 Codes 630-676.

*ICD-9 Codes 290-319. *ICD-9 Codes 800-989.

Adolescents Served in State Psychiatric Hospitals,¹ Mental Retardation Centers,² and Alcohol and Drug Abuse Treatment Centers³ by Specified Principal or Primary Diagnosis,
Age, Race, and Sex
North Carolina FY 1984 and CY 1992

| | | | | <u>Diag</u> | <u>nosis</u> | | | |
|----------------------------|------------|-------------|--------------------------|-------------|--------------------|-----|-------|-----------------------|
| Patient Characteristics | To 1984 | tal 1992 | Develop Disal 1984 | | Subs Ab 1984 | | | ental ness 1992 |
| | | | | | | | | |
| Total | 1,839 | 1,407 | 85 | 125 | 204 | 178 | 1,550 | 1,104 |
| Age | | | | | | | | |
| 10-17 | 1,152 | 1,019 | 51 | 82 | 69 | 50 | 1,032 | 887 |
| 18-19 | 687 | 388 | 34 | 43 | 135 | 128 | 518 | 217 |
| Race | | | | | | | | |
| White | 1,254 | 916 | 36 | 71 | 178 | 126 | 1,040 | 719 |
| Black | 568 | 459 | 47 | 53 | 21 | 52 | 500 | 354 |
| Other/Unknown | 17 | 32 | 2 | 1 | 5 | 0 | 10 | 31 |
| Sex | | | | | | | | |
| Male | 1,177 | 903 | 70 | 84 | 162 | 140 | 945 | 679 |
| Female | 662 | 504 | 15 | 41 | 42 | 38 | 605 | 425 |

¹Broughton, Cherry, Dix, and Umstead.

Source: N.C. Department of Human Resources, Division of Mental Health, Developmental Disability, and Substance Abuse Services.

²Black Mountain, Caswell, Murdock, O'Berry, and Western.

³Black Mountain, Butner, and Jones.

Adolescents Served in Area Mental Health Centers by
Specified Principal or Primary Diagnosis, Age, Race, and Sex
North Carolina FY 1984 and CY 1992

| | | | | <u>Dia</u> | <u>gnosis</u> | | | |
|-----------------|-------------|-------------|-------------|-------------------|---------------|--------------|-------------|---------------|
| Patient | T | otal | | pmental bility | | tance use | | ental ness |
| Characteristics | <u>1984</u> | <u>1992</u> | <u>1984</u> | <u>1992</u> | <u>1984</u> | <u>1992</u> | <u>1984</u> | <u>1992</u> |
| Total | 20,791 | 33,988 | 1,505 | 2,019 | 1,460 | 4,663 | 17,826 | 27,306 |
| Age | | | | | | | | |
| 10-17 | 16,572 | 28,096 | 1,085 | 1,470 | 613 | 2,512 | 14,874 | 24,114 |
| 18-19 | 4,219 | 5,892 | 420 | 549 | 847 | 2,151 | 2,952 | 3,192 |
| Race | | | | | | | | |
| White | 14,804 | 21,878 | 878 | 1,249 | 1,228 | 3,425 | 12,698 | 17,204 |
| Black | 5,621 | 10,860 | 577 | 704 | 189 | 1,086 | 4,855 | 9,070 |
| Other/Unknown | 366 | 1,250 | 50 | 66 | 43 | 152 | 273 | 1,032 |
| Sex | | | | | | | | |
| Male | 12,289 | 20,426 | 933 | 1,282 | 1,130 | 3,564 | 10,226 | 15,580 |
| Female | 8,502 | 13,562 | 572 | 737 | 330 | 1,099 | 7,600 | 11,726 |

Source: N.C. Department of Human Resources, Division of Mental Health, Developmental Disabilities, and Substance Abuse Services.

Table 26

Percentages of Prenatal WIC Participants by Race, Marital Status, and Education North Carolina Mothers 1992

| | Moth | er's Age at De | elivery |
|-------------------------|------------|----------------|--------------|
| Patient | Total | | |
| Characteristics | Under 20 | Under 18 | <u>18-19</u> |
| | n = 11,563 | n = 4,699 | n = 6,864 |
| Race | | ., | ., ., . |
| White | 51.0 | 45.5 | 54.8 |
| Black | 48.6 | 54.1 | 44.8 |
| Other | 0.3 | 0.3 | 0.4 |
| Marital Status | | | |
| Married | 22.8 | 14.2 | 28.7 |
| Not Married* | 77.2 | 85.8 | 71.3 |
| Highest Grade Completed | | | |
| 0-8 | 11.8 | 20.8 | 5.6 |
| 9-11 | 56.8 | 72.9 | 45.8 |
| 12 or more | 31.4 | 6.4 | 48.6 |

^{*}Mother has never been legally married or was widowed or legally divorced more than 280 days prior to giving birth.

Table 27

Percentages of Adolescent Public Family Planning Patients
by Patient Characteristics
North Carolina 1992

| | | Patient's Age | |
|------------------------------------|------------|---------------|--------------|
| Patient | Total | | |
| Characteristics | Under 20 | Under 18 | <u>18-19</u> |
| | n = 44,924 | n = 24,200 | n = 20,724 |
| Race | | | |
| White | 52.6 | 50.3 | 55.3 |
| Black | 44.7 | 47.3 | 41.7 |
| American Indian | 1.6 | 1.5 | 1.6 |
| Other | 1.1 | 0.8 | 1.4 |
| Marital Status | | | |
| Married | 8.5 | 5.6 | 11.9 |
| Not Married* | 87.9 | 90.2 | 85.3 |
| Not Stated | 3.5 | 4.2 | 2.8 |
| Highest Grade Completed | | | |
| 0-8 | 18.0 | 25.6 | 9.0 |
| 9-11 | 46.6 | 50.3 | 42.2 |
| 12 or more | 22.2 | 10.5 | 35.8 |
| Not Stated | 13.3 | 13.6 | 12.9 |
| Percent of Poverty Level | | | |
| At or below 100 | 87.9 | 90.8 | 84.5 |
| 101-149 | 6.7 | 4.8 | 9.0 |
| 150 or more | 5.4 | 4.4 | 6.6 |
| Patient Claimed | | | |
| Title XIX (Medicaid) Reimbursement | 21.5 | 20.2 | 23.0 |
| Contraceptive Method | | | |
| Pill | 88.8 | 89.4 | 88.1 |
| Foam and Condom | 6.1 | 6.1 | 6.0 |
| Other | 1.7 | 1.4 | 2.1 |
| None | 3.1 | 2.9 | 3.3 |
| Not Stated | 0.4 | 0.3 | 0.5 |

^{*}Never married, separated, widowed or divorced.

Key Health Status Objectives Targeting Adolescents and Young Adults

Duplicate objectives, which appear in two or more priority areas, are marked with an asterisk (*).

Except as otherwise noted, all rates in the following objectives are annual. Where the baseline rate is age adjusted, it is age adjusted to the 1940 U.S. population, and the target is age adjusted also. If a rate is age adjusted, the crude baseline rate may be found in Appendix D.

2.3* Reduce overweight to a prevalence of no more than 20 percent among people aged 20 and older and no more than 15 percent among adolescents aged 12 through 19. (Baseline: 26 percent for people aged 20 through 74 in 1976-80, 24 percent for men and 27 percent for women; 15 percent for adolescents aged 12 through 19 in 1976-80)

Note: For people aged 20 and older, overweight is defined as body mass index (BMI) equal to or greater than 27.8 for men and 27.3 for women. For adolescents, overweight is defined as BMI equal to or greater than 23.0 for males aged 12 through 14, 24.3 for males aged 15 through 17, 25.8 for males aged 18 through 19, 23.4 for females aged 12 through 14, 24.8 for females aged 15 through 17, and 25.7 for females aged 18 through 19. The values for adolescents are the age- and gender-specific 85th percentile values of the 1976-80 National Health and Nutrition Examination Survey (NHANES II), corrected for sample variation. BMI is calculated by dividing weight in kilograms by the square of height in meters. The cut points used to define overweight approximate the 120 percent of desirable body weight definition used in the 1990 objectives.

- 4.1b Reduce deaths among people aged 15 through 24 caused by alcohol-related motor vehicle crashes to no more than 18 per 100,000. (Baseline: 21.5 per 100,000 in 1987)
- 5.1 Reduce pregnancies among girls aged 17 and younger to no more than 50 per 1,000 adolescents. (Baseline: 71.1 pregnancies per 1,000 girls aged 15 through 17 in 1985)

Special Population Targets

| | Pregnancies (per 1,000) | 1985 Baseline | 2000 Target |
|------|--------------------------------------|------------------|-------------|
| 5.1a | Black adolescent girls aged 15-19 | 186 [†] | 120 |
| 5.1b | Hispanic adolescent girls aged 15-19 | 158 | 105 |
| | [†] Nonwhite adolescents | | |

Note: For black and Hispanic adolescent girls, baseline data are unavailable for those aged 15 through 17. The targets for these two populations are based on data for women aged 15 through 19. If more complete data become available, a 35-percent reduction from baseline figures should be used as the target.

- 6.1a* Reduce suicides among youth aged 15 through 19 to no more than 8.2 per 100,000. (Baseline: 10.3 per 100,000 in 1987)
- 6.1b* Reduce suicides among men aged 20 through 34 to no more than 21.4 per 100,000. (Baseline: 25.2 per 100,000 in 1987)
- 6.2* Reduce by 15 percent the incidence of injurious suicide attempts among adolescents aged 14 through 17. (Baseline data available in 1991)
- 6.3 Reduce to less than 10 percent the prevalence of mental disorders among children and adolescents.

 (Baseline: An estimated 12 percent among youth younger than age 18 in 1989)
- 7.1 Reduce homicides to no more than 7.2 per 100,000 people. (Age-adjusted baseline: 8.5 per 100,000 in 1987)

Special Population Targets

| | Homicide Rate (per 100,000) | 1987 Baseline | 2000 Target |
|------|--|---------------|-------------|
| 7.1b | Spouses aged 15-34 | 1.7 | 1.4 |
| 7.1c | Black men aged 15-34 | 90.5 | 72.4 |
| 7.1d | Hispanic men aged 15-34 | 53.1 | 42.5 |
| 7.1e | Black women aged 15-34 | 20.0 | 16.0 |
| 7.1f | American Indians/Alaska Natives in Reservation State | s 14.1 | 11.3 |

- 7.7a Reduce rape and attempted rape of women aged 12 through 34 to no more than 225 per 100,000. (Baseline: 250 per 100,000 in 1986)
- 9.3b Reduce deaths among youth aged 15 through 24 caused by motor vehicle crashes to no more than 33 per 100,000. (Baseline: 36.9 per 100,000 in 1987)

Denial Caries Prevalence

Reduce dental caries (cavities) so that the proportion of children with one or more caries (in permanent or primary teeth) is no more than 35 percent among children aged 6 through 8 and no more than 60 percent among adolescents aged 15. (Baseline: 53 percent of children aged 6 through 8 in 1986-87; 78 percent of adolescents aged 15 in 1986-87)

Special Population Target

1983-84 Raseline 2000 Target

| | Demai Carles I revalence | ., | O , Dabelline | 2000 14. 80. |
|----------|---|---------|----------------|----------------------|
| 13.1d | American Indian/Alaska Native adolescents aged 15 | | 93% | 70% |
| Reduce | untreated dental caries so that the proportion of child | lren wi | ith untreated | caries (in permanent |
| or prima | ary teeth) is no more than 20 percent among children | aged 6 | 5 through 8 au | nd no more than |

13.2 15 percent among adolescents aged 15. (Baseline: 27 percent of children aged 6-8 in 1986; 23 percent of adolescents aged 15 in 1986-87)

Special Population Targets

| | Untreated Dental Caries Among Adolescents | 1986-87 Baseline | 2000 Target | |
|-------|--|---------------------|-------------|--|
| 13.2a | Adolescents aged 15 whose parents have less than high school education | 41% | 25% | |
| 13.2b | American Indian/Alaska Native adolescents aged 15 | 84% [†] | 40% | |
| 13.2c | Black adolescents aged 15 | 38% | 20% | |
| 13.2d | Hispanic adolescents aged 15 | 31-47% [‡] | 25% | |
| | †1983-84 baseline | | | |

19.1b Reduce gonorrhea among adolescents aged 15 through 19 to an incidence of no more than 750 cases per 100,000. (Baseline: 1,123 per 100,000 in 1989)

Key Risk Reduction Objectives Targeting Adolescents and Young Adults

Increase to at least 30 percent the proportion of people aged 6 and older who engage regularly, preferably daily, in light to moderate physical activity for at least 30 minutes per day. (Baseline: 22 percent of people aged 18 and older were active for at least 30 minutes 5 or more times per week and 12 percent were active 7 or more times per week in 1985)

Note: Light to moderate physical activity requires sustained, rhythmic muscular movements, is at least equivalent to sustained walking, and is performed at less than 60 percent of maximum heart rate for age. Maximum heart rate equals roughly 220 beats per minute minus age. Examples may include walking, swimming, cycling, dancing, gordening and yardwork, various domestic and occupational activities, and games and other childhood pursuits.

1.4 Increase to at least 20 percent the proportion of people aged 18 and older and to at least 75 percent the proportion of children and adolescents aged 6 through 17 who engage in vigorous physical activity that promotes the development and maintenance of cardiorespiratory fitness 3 or more days per week for 20 or more minutes per occasion. (Baseline: 12 percent for people aged 18 and older in 1985; 66 percent for youth aged 10 through 17 in 1984)

Special Population Target

| | Vigorous Physical Activity | 1985 Baseline | 2000 Target |
|------|--|---------------|-------------|
| 1.4a | Lower-income people aged 18 and older (annual family income <\$20,000) | 7% | 12% |

Note: Vigorous physical activities are rhythmic, repetitive physical activities that use large muscle groups at 60 percent or more of maximum heart rate for age. An exercise heart rate of 60 percent of maximum heart rate for age is about 50 percent of maximal cardiorespiratory capacity and is sufficient for cardiorespiratory conditioning. Maximum heart rate equals roughly 220 beats per minute minus age.

2.8 Increase calcium intake so at least 50 percent of youth aged 12 through 24 and 50 percent of pregnant and lactating women consume three or more servings daily of foods rich in calcium, and at least 50 percent of people aged 25 and older consume two or more servings daily. (Baseline: 7 percent of women and 14 percent of men aged 19 though 24 and 24 percent of pregnant and lactating women consumed three or more servings, and 15 percent of women and 23 percent of men aged 25 through 50 consumed two or more servings in 1985-86)

Note: The number of servings of foods rich in calcium is based on milk and milk products. A serving is considered to be 1 cup of skim milk or its equivalent in calcium (302 mg). The number of servings in this objective will generally provide approximately three-fourths of the 1989 Recommended Dietary Allowance (RDA) of calcium. The RDA is 1200 mg for people aged 12 through 24, 800 mg for people aged 25 and older, and 1200 mg for pregnant and lactating women.

Reduce the initiation of cigarette smoking by children and youth so that no more than 15 percent 3.5 have become regular cigarette smokers by age 20. (Baseline: 30 percent of youth had become regular cigarette smokers by ages 20 through 24 in 1987)

Special Population Target

| | Initiation of Smoking | 19 | 87 Baseline | 2000 Target |
|---|---|--------|---------------|----------------|
| 3.5a | Lower socioeconomic status youth | | 40% | 18% |
| [†] As measured by people aged 20-24 with a high school education of | | | | ss |
| Reduc | e smokeless tobacco use by males aged 12 through 24 | to a p | orevalence of | no more than 4 |
| percent. (Baseline: 6.6 percent among males aged 12 through 17 in 1988; 8.9 percent among | | | | |

3.9 males aged 18 through 24 in 1987)

Special Population Target

| | Smokeless Tobacco Use | 1986-87 Baseline | 2000 Target | |
|---|-------------------------------------|------------------|-------------|--|
| 3.9a | American Indian/Alaska Native youth | 18-64% | 10% | |
| Note: For males aged 12 through 17, a smokeless tobacco user is someone who has used snuff or chewing | | | | |

tabacco in the preceding month. For males aged 18 through 24, a smokeless tobacco user is someone who has used either snuff or chewing tobacco at least 20 times and who currently uses snuff or chewing tobacco.

- Increase by at least 1 year the average age of first use of cigarettes, alcohol, and marijuana by 4.5 adolescents aged 12 through 17. (Baseline: Age 11.6 for cigarettes, age 13.1 for alcohol, and age 13.4 for marijuana in 1988)
- 4.6 Reduce the proportion of young people who have used alcohol, marijuana, and cocaine in the past month, as follows:

| Substance/Age | 1988 Baseline | 2000 Target |
|----------------------|---------------|-------------|
| Alcohol/aged 12-17 | 25.2% | 12.6% |
| Alcohol/aged 18-20 | 57.9% | 29% |
| Marijuana/aged 12-17 | 6.4% | 3.2% |
| Marijuana/aged 18-25 | 15.5% | 7.8% |
| Cocaine/aged 12-17 | 1.1% | 0.6% |
| Cocaine/aged 18-25 | 4.5% | 2.3% |

Note: The targets of this objective are consistent with the goals established by the Office of National Drug Control Policy, Executive Office of the President.

Reduce the proportion of high school seniors and college students engaging in recent occasions of 4.7 heavy drinking of alcoholic beverages to no more than 28 percent of high school seniors and 32 percent of college students. (Baseline: 33 percent of high school seniors and 41.7 percent of college students in 1989)

Note: Recent heavy drinking is defined as having 5 or more drinks on one occasion in the previous 2-week period as monitored by self-reports.

4.9 Increase the proportion of high school seniors who perceive social disapproval associated with the heavy use of alcohol, occasional use of marijuana, and experimentation with cocaine, as follows:

| Behavior | 1989 Baseline | 2000 Target |
|------------------------------|---------------|-------------|
| Heavy use of alcohol | 56.4% | 70% |
| Occasional use of marijuana | 71.1% | 85% |
| Trying cocaine once or twice | 88.9% | 95% |

Note: Heavy drinking is defined as having 5 or more drinks once or twice each weekend.

4.10 Increase the proportion of high school seniors who associate risk of physical or psychological harm with the heavy use of alcohol, regular use of marijuana, and experimentation with cocaine, as follows:

| Behavior | 1989 Baseline | 2000 Target |
|------------------------------|---------------|-------------|
| Heavy use of alcohol | 44% | 70% |
| Regular use of marijuana | 77.5% | 90% |
| Trying cocaine once or twice | 54.9% | 80% |

Note: Heavy drinking is defined as having 5 or mare drinks ance or twice each weekend.

- 4.11 Reduce to no more than 3 percent the proportion of male high school seniors who use anabolic steroids. (Baseline: 4.7 percent in 1989)
- 5.4* Reduce the proportion of adolescents who have engaged in sexual intercourse to no more than 15 percent by age 15 and no more than 40 percent by age 17. (Baseline: 27 percent of girls and 33 percent of boys by age 15; 50 percent of girls and 66 percent of boys by age 17; reported in 1988)
- 5.5 Increase to at least 40 percent the proportion of ever sexually active adolescents aged 17 and younger who have abstained from sexual activity for the previous three months. (Baseline: 26 percent of sexually active girls aged 15 through 17 in 1988)
- 5.6 Increase to at least 90 percent the proportion of sexually active, unmarried people aged 19 and younger who use contraception, especially combined method contraception that both effectively prevents pregnancy and provides barrier protection against disease. (Baseline: 78 percent at most recent intercourse and 63 percent at first intercourse; 2 percent used oral contraceptives and the condom at most recent intercourse; among young women aged 15 through 19 reporting in 1988)

Note: Strategies to achieve this objective must be undertaken sensitively to avoid indirectly encouraging or condoning sexual activity among teens who are not yet sexually active.

- 7.9 Reduce by 20 percent the incidence of physical fighting among adolescents aged 14 through 17. (Baseline data available in 1991)
- 7.10 Reduce by 20 percent the incidence of weapon-carrying by adolescents aged 14 through 17. (Baseline data available in 1991)
- 8.2 Increase the high school graduation rate to at least 90 percent, thereby reducing risks for multiple problem behaviors and poor mental and physical health. (Baseline: 79 percent of people aged 20 through 21 had graduated from high school with a regular diploma in 1989)

Note: This objective and its target are consistent with the National Education Goal to increase high school graduation rates. The baseline estimate is a proxy. When a measure is chosen to monitor the National Education Goal, the same measure and data source will be used to track this objective.

13.8 Increase to at least 50 percent the proportion of children who have received protective sealants on the occlusal (chewing) surfaces of permanent molar teeth. (Baseline: 11 percent of children aged 8 and 8 percent of adolescents aged 14 in 1986-87)

Note: Progress toward this objective will be monitored based on prevalence of sealants in children at age 8 and at age 14, when the majority of first and secand malars, respectively, are erupted.

18.4a* Increase to at least 60 percent the proportion of sexually active, unmarried young women aged 15 through 19 whose partners used a condom at last sexual intercourse. (Baseline: 26 percent in 1988)

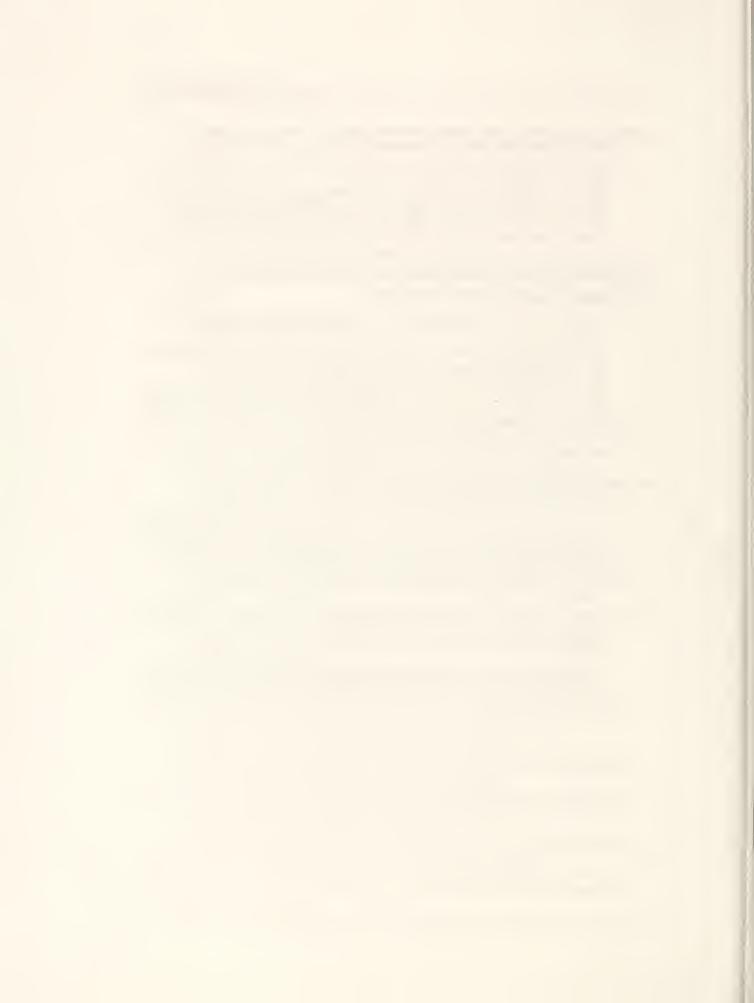
Note: Strategies to achieve this objective must be undertaken sensitively to avoid indirectly encouraging or condoning sexual activity among teens who are not yet sexually active.

- 18.4b* Increase to at least 75 percent the proportion of sexually active, unmarried young men aged 15 through 19 who used a condom at last sexual intercourse. (Baseline: 57 percent in 1988)
 - Note: Strategies to achieve this objective must be undertaken sensitively to avoid indirectly encouraging or condoning sexual activity among teens who are not yet sexually active.
- 21.2c Increase to at least 50 percent the proportion of adolescents aged 13 through 18 who have received, as a minimum within the appropriate interval, all of the screening and immunization services and at least one of the counseling services appropriate for their age and gender as recommended by the U.S. Preventive Services Task Force. (Baseline data available in 1991)

Key Services and Protection Objectives Targeting Adolescents and Young Adults

- 1.8 Increase to at least 50 percent the proportion of children and adolescents in 1st through 12th grade who participate in daily school physical education. (Baseline: 36 percent in 1984-86)
- 1.9 Increase to at least 50 percent the proportion of school physical education class time that students spend being physically active, preferably engaged in lifetime physical activities. (Baseline: Students spent an estimated 27 percent of class time being physically active in 1983)
 - Note: Lifetime activities are activities that may be readily carried into adulthood because they generally need only one or two people. Examples include swimming, bicycling, jogging, and racquet sports. Also counted as lifetime activities are vigorous social activities such as dancing. Competitive group sports and activities typically played only by young children such as group gomes are excluded.
- 5.8 Increase to at least 85 percent the proportion of people aged 10 through 18 who have discussed human sexuality, including values surrounding sexuality, with their parents and/or have received information through another parentally-endorsed source, such as youth, school, or religious programs. (Baseline: 66 percent of people aged 13 through 18 have discussed sexuality with their parents; reported in 1986)
 - Note: This objective, which supports family communication on a range of vital personal health issues, will be tracked using the National Health Interview Survey, a continuing, voluntary, national sample survey of adults who report on household characteristics including such items as illnesses, injuries, use of health services, and demographic characteristics.
- 5.10* Increase to at least 60 percent the proportion of primary care providers who provide age-appropriate preconception care and counseling. (Baseline data available in 1992)
- 8.9 Increase to at least 75 percent the proportion of people aged 10 and older who have discussed issues related to nutrition, physical activity, sexual behavior, tobacco, alcohol, other drugs, or safety with family members on at least one occasion during the preceding month. (Baseline data available in 1991)

Note: This objective, which supports family communication on a range of vital personal health issues, will be tracked using the National Health Interview Survey, a continuing, voluntary, national sample survey of adults who report on household characteristics including such items as illnesses, injuries, use of health services, and demographic characteristics.



APPENDIX 2

1993 YOUTH RISK BEHAVIOR SURVEY

This survey is about health behavior. It has been developed so you can tell us what you do that may affect your health. The information you give will be used to develop better health education programs for young people like yourself.

DO NOT write your name on this survey or the answer sheet. The answers you give will be kept *private*. No one will know what you write. Answer the questions based on what you really do.

Completing the survey is voluntary. Whether or not you answer the questions will not affect your grade in this class.

The questions that ask about your background will only be used to describe the types of students completing this survey. The information will not be used to find out your name. No names will ever be reported.

Place all your answers on the answer sheet. Fill in the circles completely. Make sure to answer every question. When you are finished, follow the instructions of the person giving you the survey.

THANK YOU VERY MUCH FOR YOUR HELP

INSTRUCTIONS: Read each question carefully. Fill in the circle on your answer sheet that matches the letter of your answer. CHOOSE THE ONE BEST ANSWER FOR EACH QUESTION.

- 1. How old are you?
 - a. 12 years old or younger
 - b. 13 years old
 - c. 14 years old
 - d. 15 years old
 - e. 16 years old
 - f. 17 years old
 - g. 18 years old or older
- 2. What is your sex?
 - a. Female
 - b. Male
- 3. In what grade are you?
 - a. 9th grade
 - b. 10th grade
 - c. 11th grade
 - d. 12th grade
 - e. Ungraded or other
- 4. How do you describe yourself?
 - a. White not Hispanic
 - b. Black not Hispanic
 - c. Hispanic
 - d. Asian or Pacific Islander
 - e. Native American or Alaskan Native
 - f. Other
- 5. In the past year, who did you live with most of the time? (Select only one response.)
 - a. Both parents
 - b. Father (all or most of time)
 - c. Mother (all or most of time)
 - d. Foster parents
 - e. Other relatives

- 6. Compared to other students in your class, what kind of student would you say you are?
 - a. One of the best
 - b. Far above the middle
 - c. A little above the middle
 - d. In the middle
 - e. A little below the middle
 - f. Far below the middle
 - g. Near the bottom
- 7. How often do you wear a seat belt when riding In a car driven by someone else?
 - a. Never
 - b. Rarely
 - c. Sometimes
 - d. Most of the time
 - e. Always
- 8. When you rode a motorcycle during the past 12 months, how often did you wear a helmet?
 - a. I did not ride a motorcycle during the past 12 months
 - b. Never wore a helmet
 - c. Rarely wore a helmet
 - d. Sometimes wore a helmet
 - e. Most of the time wore a helmet
 - f. Always wore a helmet
- 9. When you rode a bicycle during the past 12 months, how often did you wear a helmet?
 - i did not ride a bicycle during the past 12 months
 - b. Never wore a helmet
 - c. Rarely wore a helmet
 - d. Sometimes wore a helmet
 - e. Most of the time wore a helmet
 - f. Always wore a helmet

- 10. During the past 12 months, when you went swimming in places such as a pool, lake, river, at the beach, or pond, how often was an adult or a lifeguard watching you?
 - a. I did not go swimming during the past 12 months
 - b. Never
 - c. Rarely
 - d. Sometimes
 - e. Most of the time
 - f. Always
- 11. During the past 30 days, how many times did you ride in a car or other vehicle driven by someone who had been drinking alcohol?
 - a. 0 (zero) times
 - b. 1 time
 - c. 2 or 3 times
 - d. 4 or 5 times
 - e. 6 or more times
- 12. During the past 30 days, how many times did you drive a car or other vehicle when you had been drinking alcohol?
 - a. 0 (zero) times
 - b. 1 time
 - c. 2 or 3 times
 - d. 4 or 5 times
 - e. 6 or more times
- 13. During the past 30 days, on how many days did you carry a weapon such as a gun, knife, or club?
 - a. 0 (zero) days
 - b. 1 day
 - c. 2 or 3 days
 - d. 4 or 5 days
 - e. 6 or more days
- 14. During the past 30 days, on how many days did you carry a gun?
 - a. 0 (zero) days
 - b. 1 day
 - c. 2 or 3 days
 - d. 4 or 5 days
 - e. 6 or more days

- 15. During the past 30 days, on how many days did you carry a weapon such as a gun, knife, or club on school property?
 - a. 0 (zero) days
 - b. 1 day
 - c. 2 or 3 days
 - d. 4 or 5 days
 - e. 6 or more days
- 16. During the past 30 days, how many days did you not go to school because you felt you would be unsafe at school or on your way to or from school?
 - a. 0 (zero) days
 - b. 1 day
 - c. 2 or 3 days
 - d. 4 or 5 days
 - e. 6 or more days
- 17. During the past 12 months, how many times has someone threatened or injured you with a weapon such as a gun, knife, or club on school property?
 - a. 0 (zero) times
 - b. 1 time
 - c. 2 or 3 times
 - d. 4 or 5 times
 - e. 6 or 7 times
 - f. 8 or 9 times
 - g. 10 or 11 times b. 12 or more times
- 18. During the past 12 months, how many times has someone stolen or deliberately damaged your property such as your car, clothing, or books on
 - a. 0 (zero) times
 - b. 1 time
 - c. 2 or 3 times
 - d. 4 or 5 times
 - e. 6 or 7 times
 - f. 8 or 9 times
 - g. 10 or 11 times
 - h. 12 or more times

- 19. During the past 12 months, how many times were you in a physical fight?
 - a. 0 (zero) times
 - b. 1 time
 - c. 2 or 3 times
 - d. 4 or 5 times
 - e. 6 or 7 times
 - f. 8 or 9 times
 - g. 10 or 11 times
 - h. 12 or more times
- 20. The last time you were in a physical fight, with whom did you fight?
 - a. I have never been in a physical fight
 - b. A total stranger
 - c. A friend or someone I know
 - d. A boyfriend, girlfriend, or date
 - A parent, brother, sister, or other family member
 - f. Someone not listed above
 - g. More than one of the persons listed above
- 21. During the past 12 months, how many times were you in a physical fight in which you were injured and had to be treated by a doctor or nurse?
 - a. 0 (zero) times
 - b. 1 time
 - c. 2 or 3 times
 - d. 4 or 5 times
 - e. 6 or more times
- 22. During the past 12 months, how many times were you in a physical fight on school property?
 - a. 0 (zero) times
 - b. 1 time
 - c. 2 or 3 times
 - d. 4 or 5 times
 - e. 6 or 7 times
 - f. 8 or 9 times
 - g. 10 or 11 times
 - h. 12 or more times

These questions ask you how you feel about some things.

- 23. Is it easy or hard for you to get along with your family?
 - a. Very hard
 - b. Hard
 - c. Easy
 - d. Very easy
- 24. How easy or hard is it for you to say no if you do not want to do something your friends are doing?
 - a. Very hard
 - b. Hard
 - c. Easy
 - d. Very easy

Sometimes people feel so depressed and hopeless about the future that they may consider attempting suicide, that is, taking some action to end their own life.

- 25. During the past 12 months, did you ever seriously consider attempting suicide?
 - a. Yes
 - b. No
- 26. During the past 12 months, did you make a plan about how you would attempt suicide?
 - a. Yes
 - b. No
- 27. During the past 12 months, how many times did you actually attempt suicide?
 - a. 0 (zero) times
 - b. 1 time
 - c. 2 or 3 times
 - d. 4 or 5 times
 - e. 6 or more times

- 28. If you attempted suicide during the past 12 months, did any attempt result in an injury, poisoning, or overdose that had to be treated by a doctor or nurse?
 - i did not attempt suicide during the past 12 months
 - b. Yes
 - c. No

The next questions ask about tobacco use.

- 29. How old were you when you smoked a whole cigarette for the first time?
 - a. I have never smoked a whole cigarette
 - b. Less than 9 years old
 - c. 9 or 10 years old
 - d. 11 or 12 years old
 - e. 13 of 14 years old
 - f. 15 or 16 years old
 - g. 17 or more years old
- 30. How old were you when you first started smoking cigarettes regularly (at least one cigarette every day for 30 days)?
 - a. I have never smoked cigarettes regularly
 - b. Less than 9 years old
 - c. 9 or 10 years old
 - d. 11 or 12 years old
 - e. 13 or 14 years old
 - f. 15 or 16 years old
 - g. 17 or more years old
- 31. During the past 30 days, on how many days did you smoke cigarettes?
 - a. 0 (zero) days
 - b. 1 or 2 days
 - c. 3 to 5 days
 - d. 6 to 9 days
 - e. 10 to 19 days
 - f. 20 to 29 days
 - g. Ali 30 days

- 32. During the past 30 days, on the days you smoked, how many cigarettes did you smoke per day?
 - a. I did not smoke cigarettes during the past 30 days
 - b. Less than 1 cigarette per day
 - c. 1 clgarette per day
 - d. 2 to 5 cigarettes per day
 - e. 6 to 10 cigarettes per day
 - f. 11 to 20 cigarettes per day
 - g. More than 20 cigarettes per day
- 33. During the past 30 days, on how many days did you smoke cigarettes on school property?
 - a. 0 days
 - b. 1 or 2 days
 - c. 3 to 5 days
 - d. 6 to 9 days
 - e. 10 to 19 days
 - f. 20 to 29 days
 - g. Ali 30 days
- 34. During the **past 6 months**, did you **try to quit** smoking clgarettes?
 - i did not smoke cigarettes during the past 6
 months
 - b. Yes
 - c. No
- 35. How old were you when you tried smokeless tobacco (chewing tobacco or snuff) for the first time?
 - a. I have never tried smokeless tobacco
 - b. Less than 9 years old
 - c. 9 or 10 years old
 - d. 11 or 12 years old
 - e. 13 or 14 years old
 - f. 15 or 16 years old
 - g. 17 or more years old

- 36. During the past 30 days, did you use **chewing tobacco**, such as Redman, Levi Garrett, or Beechnut, or **snuff**, such as Skoal, Skoal Bandits, or Copenhagen?
 - a. No, I did not use chewing tobacco or snuff
 - b. Yes, chewing tobacco only
 - c. Yes, snuff only
 - d. Yes, both chewing tobacco and snuff
- 37. During the past 30 days, did you use chewing tobacco, such as Redman, Levi Garrett, or Beechnut, or snuff, such as Skoal, Skoal Bandits, or Copenhagen on school property?
 - a. No, I did not use chewing tobacco or snuff
 - b. Yes, chewing tobacco only
 - c. Yes, snuff only
 - d. Yes, both chewing tobacco and snuff
- 38. Do you feel you could stop using tobacco if you wanted to?
 - a. I do not use tobacco
 - b. Yes
 - C No

The next questions ask about drinking alcohol. This includes drinking beer, wine, wine coolers, and liquor such as rum, gin, vodka, whiskey, or moonshine. For these questions, drinking alcohol does not include drinking a few sips of wine for religious purposes.

- 39. How old were you when you had your first drink of alcohol other than a few slps?
 - a. I have never had a drink of aicohol other than a few slps
 - b. Less than 9 years old
 - c. 9 or 10 years old
 - d. 11 or 12 years old
 - e. 13 or 14 years old
 - f. 15 or 16 years old
 - g. 17 or more years old

- 40. During the past 30 days, on how many days did you have at least one drink of alcohol?
 - a. 0 (zero) days
 - b. 1 or 2 days
 - c. 3 to 5 days
 - d. 6 to 9 days
 - e. 10 to 19 days
 - f. 20 to 29 days
 - g. All 30 days
- 41. During the past 30 days, on how many days did you have 5 or more drinks of alcohol in a row, that is, within a couple of hours?
 - a. 0 (zero) days
 - b. 1 day
 - c. 2 days
 - d. 3 to 5 days
 - e. 6 to 9 days
 - f. 10 to 19 days
 - g. 20 or more days
- 42. During the past 30 days, on how many days did 'you have at least one drink of alcohol on school property?
 - a. 0 (zero) days
 - b. 1 or 2 days
 - c. 3 to 5 days
 - d. 6 to 9 days
 - e. 10 to 19 days
 - f. 20 to 29 days
 - g. All 30 days
- 43. About how many cans or bottles of beer can a person drink and still drive safely?
 - a. Any drinking will hurt driving skills
 - b. 1 or 2 in an hour
 - c. 5 to 6 if you walt 2 hours
 - d. Some skilled drivers can drive safely after drinking 6 or more beers in a night

- 44. If you have used alcohol in the past year, how often has your drinking caused problems with your teachers or your principal?
 - a. Never a problem
 - b. Once
 - c. Less than once a month
 - d. More than once a month, less than once a week
 - e. More than once a week
- 45. If you have used alcohol in the past year, how often has your drinking caused problems with friends your age?
 - a. Never a problem
 - b. Once
 - c. Less than once a month
 - d. More than once a month, less than once a week
 - e. More than once a week
- 46. If you have used alcohol in the past year, how often has your drinking caused problems with the police?
 - a. Never a problem
 - b. Once
 - c. Less than once a month
 - d. More than once a month, less than once a week
 - e. More than once a week
- 47. If you have used alcohol in the past year, how often has your drinking caused problems with your parents or family?
 - a. Never a problem
 - b. Once
 - c. Less than once a month
 - d. More than once a month, less than once a week
 - e. More than once a week

- 48. If one of your parents has used alcohol in the past year, how often has his or her alcohol use caused you problems?
 - a. Never a problem
 - b. Once
 - c. Less than once a month
 - d. More than once a month, less than once a week
 - e. More than once a week
- 49. How do your parents/guardians or family feel about someone your age drinking alcohol?
 - a. They strongly approve
 - b. They approve
 - c. They don't care
 - d. They disapprove
 - e. They strongly disapprove
 - f. I don't know
- 50. How do your friends feel about someone your age drinking alcohol?
 - a. They strongly approve
 - b. They approve
 - c. They don't care
 - d. They disapprove
 - e. They strongly disapprove
 - f. I don't know
- 51. How do most students in your grade feel about someone your age drinking alcohol?
 - a. They strongly approve
 - b. They approve
 - c. They don't care
 - d. They disapprove
 - e. They strongly disapprove
 - f. I don't know
- 52. Do you feel you could stop using alcohol if you wanted to?
 - a. I do not use alcohol
 - b. Yes
 - c. No

The next questions ask about the use of marijuana, which is also called grass or pot.

- 53. How old were you when you tried marijuana for the first time?
 - a. I have never tried marijuana
 - b. Less than 9 years old
 - c. 9 or 10 years old
 - d. 11 or 12 years old
 - e. 13 or 14 years old
 - f. 15 or 16 years old
 - g. 17 or more years old
- 54. During your life, how many times have you used marijuana?
 - a. 0 (zero) times
 - b. 1 or 2 times
 - c. 3 to 9 times
 - d. 10 to 19 times
 - e. 20 to 39 times
 - f. 40 to 99 times
 - g. 100 or more times
- 55. During the past 30 days, how many times did you use marijuana?
 - a. 0 (zero) times
 - b. 1 or 2 times
 - c. 3 to 9 times
 - d. 10 to 19 times
 - e. 20 to 39 times
 - f. 40 or more times
- 56. During the past 30 days, how many times did you use marijuana on school property?
 - a. 0 (zero) times
 - b. 1 or 2 times
 - c. 3 to 9 times
 - d. 10 to 19 times
 - e. 20 to 39 times
 - f. 40 or more times

- 57. If you have used marijuana in the past 30 days, how often did you use beer, wine, or liquor at about the same time?
 - a. Never use either alcohol or marijuana
 - b. Never use alcohol with marijuana
 - c. Less than half the time

The next questions ask about cocaine and other drugs.

- 58. How old were you when you tried any form of cocaine, including powder, crack, or freebase, for the first time?
 - a. I have never tried cocaine
 - b. Less than 9 years old
 - c. 9 or 10 years old
 - d. 11 or 12 years old
 - e. 13 or 14 years old
 - f. 15 or 16 years old
 - g. 17 or more years old
- 59. During your life, how many times have you used any form of cocaine, including powder, crack, or freebase?
 - a. 0 (zero) times
 - b. 1 or 2 times
 - c. 3 to 9 times
 - d. 10 to 19 times
 - e. 20 to 39 times
 - f. 40 or more times
- 60. During the past 30 days, how many times did you use any form of cocaine, including powder, crack, or freebase?
 - a. 0 (zero) times
 - b. 1 or 2 times
 - c. 3 to 9 times
 - d. 10 to 19 times
 - e. 20 to 39 times
 - f. 40 or more times

- 61. During your life, how many times have you used the crack or freebase forms of cocalne?
 - a. 0 (zero) times
 - b. 1 or 2 times
 - c. 3 to 9 times
 - d. 10 to 19 times
 - e. 20 to 39 times
 - f. 40 or more times
- 62. How old were you when you tried LSD, PCP, or other hallucinogens (Acid, Angel Dust) for the first time?
 - a. I have never tried LSD, PCP, or hallucinogens
 - b. Less than 9 years old
 - c. 9 or 10 years old
 - d. 11 or 12 years old
 - e. 13 or 14 years old
 - f. 15 or 16 years old
 - g. 17 or-more years old
- 63. How old were you when you first tried UPPERS (like speed or amphetamines) without a doctor telling you?
 - a. I have never tried UPPERS (like speed or amphetamines)
 - b. Less than 9 years old
 - c. 9 or 10 years old
 - d. 11 or 12 years old
 - e. 13 or 14 years old
 - f. 15 or 16 years old
 - g. 17 or more years old
- 64. During your life, how many times have you used any other type of illegal drug, such as LSD, PCP, ecstasy, mushrooms, speed, ice, heroin, or pills without a doctor's prescription?
 - a. 0 (zero) times
 - b. 1 or 2 times
 - c. 3 to 9 times
 - d. 10 to 19 times
 - e. 20 to 39 times
 - f. 40 or more times

- 65. During your life, how many times have you taken steroid pills or shots without a doctor's prescription?
 - a. 0 (zero) times
 - b. 1 or 2 times
 - c. 3 to 9 times
 - d. 10 to 19 times
 - e. 20 to 39 times
 - f. 40 or more times
- 66. During your life, have you ever injected (shot up) any lilegal drug?
 - a. Yes
 - b. No
- 67. During the past 12 months, has anyone offered, sold, or given you an illegal drug on school property?
 - a. Yes
 - b. No
- 68. If one or your parents has used drugs in the past year, how often has his or her drug use caused problems?
 - a. Never used drugs
 - b. Once
 - c. Less than once a month
 - d. More than once a month, less than once a week
 - e. More than once a week
- 69. In the past school year, how often did you get any information on alcohol or drugs from health or other school classes?
 - a. Never
 - b. Once
 - c. More than once
- 70. In the past school year, how often did you get any information on alcohol or drugs from counselors at school?
 - a. Never
 - b. Once
 - c. More than once

- 71. In the past school year, how often did you get any information on alcohol or drugs from discussions with your family?
 - a. Never
 - b. Once
 - c. More than once
- 72. In the past school year, how often did you get any information on alcohol or drugs from a friend your age?
 - a. Never
 - b. Once
 - c. More than once
- 73. In the past school year, how often did you get any information on alcohol or drugs from classes with a uniformed DARE police officer?
 - a. Never -
 - b. Once
 - c. More than once
- 74. Do you feel you could stop using marijuana or other illegal drugs if you wanted to?
 - a. I do not use marijuana or other illegal drugs
 - b. Yes
 - c. No

The next questions ask about AIDS/HiV education and information.

- 75. Have you ever been taught about AIDS/HIV infection in school?
 - a. Yes
 - b. No
 - c. Not sure
- 76. Have you ever talked about AIDS/HIV infection with your parents or other adults in your family?
 - a. Yes
 - b. No
 - c. Not sure

The next questions ask about body weight.

- 77. How do you think of yourself?
 - a. Very underweight
 - b. Slightly underweight
 - c. About the right weight
 - d. Slightly overweight
 - e. Very overweight
- 78. Which of the following are you trying to do?
 - a. Lose weight
 - b. Gain weight
 - c. Stay the same weight
 - d. I am not trying to do anything about my weight
- 79. During the past 7 days, which one of the following did you do to lose weight or to keep from gaining weight?
 - a. I did not try to lose weight or keep from gaining weight
 - b. I dieted
 - c. I exercised
 - d. I exercised and dieted
 - e. I used some other method, but I did not exercise or diet
- 80. During the past 7 days, which one of the following did you do to lose weight or to keep from gaining . weight?
 - a. I did not try to lose weight or keep from gaining weight
 - b. I made myself vomit
 - c. I took diet pills
 - d. I made myself vomit and took diet pills
 - e. I used some other method, but I did not vomit or take diet pills

The next questions ask about food you are yesterday. Think about all meals and snacks you are yesterday from the time you got up until you went to bed. Be sure to include food you are at home, at school, at restaurants, or anywhere else.

- 81. Yesterday, did you eat fruit or drink fruit juice?
 - a. No
 - b. Yes, once only
 - c. Yes, two times
 - d. Yes, three times
 - e. Yes, four or more times
- 82. Yesterday, did you eat green salad or raw or cooked vegetables?
 - a. No
 - b. Yes, once only
 - c. Yes, two times
 - d. Yes, three times
 - e. Yes, four or more times
- 83. Yesterday, did you eat hamburger, hot dogs, sausage, or barbecue?
 - a. No
 - b. Yes, once only
 - c. Yes, two times
 - d. Yes, three times
 - e. Yes, four or more times
- 84. Yesterday, did you eat french fries or potato chips?
 - a. No
 - b. Yes, once only
 - c. Yes, two times
 - d. Yes, three times
 - e. Yes, four or more times
- 85. Yesterday, did you eat cookles, doughnuts, ple, or cake?
 - a No
 - b. Yes, once only
 - c. Yes, two times
 - d. Yes, three times
 - e. Yes, four or more times

The next questions ask about physical activity.

- 86. On how many of the past 7 days did you exercise or participate in sports activities for at least 20 minutes that made you aweat and breathe hard, such as basketball, jogging, fast dancing, awimming laps, tennis, fast bicycling, or similar aerobic activities?
 - a. 0 (zero) days
 - b. 1 day
 - c. 2 days
 - d. 3 days
 - e. 4 days
 - f. 5 days
 - h. 7 days
- 87. On how many of the past 7 days did you do exercises to strengthen or tone your muscles, such as push-ups, sit-ups, or weight lifting?
 - a. 0 (zero) days
 - b. 1 day
 - c. 2 days
 - d. 3 days
 - e. 4 days
 - f. .5 days
 - g. 6 daysh. 7 days
- 88. In an average week when you are in school, on how many days do you go to physical education (PE) classes?
 - a. 0 (zero) days
 - b. 1 day
 - c. 2 days
 - d. 3 days
 - e. 4 days
 - f. 5 days
- 89. During an average physical education (PE) class, how many minutes do you spend actually exercising or playing sports?
 - a. I do not take PE
 - b. Less than 10 minutes
 - c. 10 to 20 minutes
 - d. 21 to 30 minutes
 - e. More than 30 minutes

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- 90. During the past 12 months, on how many sports teams run by your school, did you play? (Do not include PE classes.)
 - a. 0 (zero) teams
 - b. 1 team
 - c. 2 teams
 - d. 3 or more teams
- 91. During the past 12 months, on how many sports teams run by organizations outside of your school, did you play?
 - a. 0 (zero) teams
 - b. 1 team
 - c. 2 teams
 - d. 3 or more teams

The next questions ask about sexual behavior.

- 92. How old were you when you had sexual intercourse for the first time?
 - a. I have never had sexual intercourse
 - b. Less than 12 years old
 - c. 12 years old
 - d. 13 years old
 - e. 14 years old
 - f. 15 years old
 - g. 16 years old
 - h. 17 or more years old
- 93. During your life, with how many people have you had sexual intercourse?
 - a. I have never had sexual Intercourse
 - b. 1 person
 - c. 2 people
 - d. 3 people
 - e. 4 people
 - f. 5 people
 - g. 6 or more people

- 94. During the **past 3 months**, with how many people did you have sexual intercourse?
 - a. I have never had sexual Intercourse
 - b. I have had sexual intercourse, but not during the past 3 months
 - c. 1 person
 - d. 2 people
 - e. 3 people
 - f. 4 people
 - g. 5 people
 - h. 6 or more people
- 95. Did you drink alcohol or use drugs before you had sexual intercourse the isst time?
 - a. I have never had sexual intercourse
 - b. Yes
 - c. No
- 96. The **iast time** you had sexual intercourse, did you or your partner use a condom?
 - a. I have never had sexual intercourse
 - b. Yes
 - c. No
- 97. The last time you had sexual intercourse, what one method did you or your partner use to prevent pregnancy? (Select only one response.)
 - a. I have never had sexual intercourse
 - b. No method was used to prevent pregnancy
 - c. Birth control pills/implant
 - d. Condoms
 - e. Withdrawal
 - f. Some other method
 - g. Not sure
- 98. How many times have you been pregnant or gotten someone pregnant?
 - a. 0 (zero) times
 - b. 1 time
 - c. 2 or more times
 - d. Not sure

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| b. No | |
| a. Yes | |
| 99. Have you ever been told by a doctor or nurse that you have a sexually transmitted disease such as genital herpes, genital warts, chiamydia, syphilis, gonorrhea, AIDS, or HIV infection? | |
| 99. Have you ever been told by a doctor or nurse that | |
| | |
| | |

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